

WBS No: 1BAD01
Activity ID: 1B07A00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

WBS No:	1BAD01	Title:	Decommissioning Set 1 Module A									
Activity ID:	1B07A00500	Description:	IWCP Development - Module A									
								Cost Risk	2	Schedule Risk	2	
Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEAPLO	D&D A MODULE SET 1 PLANNING & ENGINEERING	1.00	each	HC	5.363	5.363	159.477	473.135	0	632.612	65.296	697.907
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	79.913	79.913	0	79.913
Total for Activity 1B07A00500:						5.363	159.477	473.135	79.913	712.525	65.296	777.820

Line Item 2CDPEAPLO - D&D A MODULE SET 1 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	327.30	Hours
Factors	1 Engineer	1091 hours	0.3 adi. Factor			
750	STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	847.00	Hours
Factors	1 engineer	847 hours				
750	STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	828.80	Hours
Factors	1 engineer	1657.6 hours	0.5 adi. Factor			
750	STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	2.323.00	Hours
Factors	4 Engineers	2323 hours	0.25 adi. Factor			
750	STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	956.80	Hours
Factors	2 Admin Assist.	2392 hours	0.2 adi. Factor			
750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)	40 hours				
A57	LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	211.258.50	Dollars
Factors	6 planners	1987.5 hours	63.27 Dollars per hour	0.28 adi. Factor		
A5C	SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors	105623 dollars	0 adi. Factor				
A5H	SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	26.082.32	Dollars
Factors	1637 hours	53.11 \$/hr	0.3 adi. Factor			
A5H	SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	90.538.30	Dollars
Factors	1270 hours	71.29 \$/hr				
A5H	SUBCONTRACTED SRVS	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	90.551.67	Dollars
Factors	2487 hours	72.82 \$/hr	0.5 adi. Factor			
A5H	SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	24.532.82	Dollars
Factors	785 hours	96.16 \$/hr	0.5 adi. Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	30.170.88	Dollars
Factors	972 hours	77.6 \$/hr	0.4 adi. Factor			
A5H	SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors	466000 Powertool balance adi.	0 adi factor for 11.9 % reduction				

Line Item SYS - Contingency And Escalation

BOE									
Resources	<i>Cost Element</i>		<i>Skill</i>		<i>Department</i>		<i>Curve</i>	<i>Quantitv</i>	<i>Units</i>
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	53.559.08	Dollars
	<i>Factors</i> 53559.1 Dollars								

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ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	26,353.77	Dollars
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Factors 26353.8 Dollars

Activity ID: 1B07A02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDACV0	Remove Chainveyors to SR	1.00	each	HC	56.594	56.594	1,404,909	440,767	0	1,845,676	530,423	2,376,099
2CDEDADC0	Decontaminate Set	1.00	each	HC	2.396	2.396	54,490	19,267	0	73,757	20,573	94,330
2CDEDADR0	Duct Removal	1.00	each	HC	5.122	5.122	119,567	31,365	0	150,932	45,143	196,075
2CDEDAEA0	Electrical & Alarms	1.00	each	HC	10.198	10.198	239,586	60,581	0	300,167	90,456	390,622
2CDEDAEE0	External Equipment Removal	1.00	each	HC	886	886	20,581	10,232	0	30,812	7,770	38,583
2CDEDAIE0	GB Internal Equipment Removal	1.00	each	HC	4.096	4.096	96,060	41,541	0	137,601	36,267	173,869
2CDEDAIP0	Reduce GB In Place	1.00	each	HC	34.616	34.616	807,841	359,243	0	1,167,084	305,000	1,472,085
2CDEDAPR0	Pipe Removal	1.00	each	HC	3.536	3.536	82,215	26,033	0	108,248	31,040	139,288
2CDEDASR0	Remove GB to Size Reduce	1.00	each	HC	17.175	17.175	430,196	185,590	0	615,786	162,420	778,207
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	808,284	808,284	0	808,284
Total for Activity 1B07A02500:						134.619	3,255,446	1,174,618	808,284	5,238,348	1,229,093	6,467,440

Line Item 2CDEDACV0 - Remove Chainveyors to SR

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	150.00	Hours
Factors	150	Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition		Linear	10.314.00	Hours
Factors	10314	Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management		Linear	411.00	Hours
Factors	411	Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition		Linear	2.597.40	Hours
Factors	2886	Hours	0.9	adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 End Envir. Sftv & Quality		Linear	7.052.27	Hours
Factors	10126	Hours	0.69645	4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition		Linear	17.887.00	Hours
Factors	17887	Hours							
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers		Linear	30.00	Hours
Factors	30	Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition		Linear	2.063.00	Hours
Factors	2063	Hours							
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management		Linear	82.00	Hours
Factors	82	Hours							
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers		Linear	1.512.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	28	GB equivalents	
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project		Linear	756.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	28	GB equivalents	
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition		Linear	577.00	Hours
Factors	577	Hours							

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751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	2,025.00	Hours
Factors	2025	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	1,512.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	28	GB equivalents
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,577.00	Hours
Factors	3577	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	6,048.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	28	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	52,500.00	Dollars
Factors	625	dollars/shift	3	shifts			28	GB equivalents
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	206,868.30	Dollars
Factors	1070705	Dollars	0.38	adi. Factor	0.50844	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	181,399.00	Dollars
Factors	181399	Dollars						

Line Item 2CDEADADC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	32.00	Hours
Factors	32	Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	118.00	Hours
Factors	118	Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	382.50	Hours
Factors	275	Hours	1.39091 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	1,498.00	Hours
Factors	1498	Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	6.00	Hours
Factors	6	Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	4.00	Hours
Factors	4	Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	55.00	Hours
Factors	55	Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	300.00	Hours
Factors	300	Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition		Linear	19,267.13	Dollars
Factors	46993	Dollars	0.41		adi. Factor						

Line Item 2CDEADADR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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Starts In FY *

Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,202.00	Hours
Factors	2202	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	123.00	Hours
Factors	123	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	386.00	Hours
Factors	386	Hours							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	740.25	Hours
Factors	1001	Hours	0.73951 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	759.00	Hours
Factors	759	Hours							
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	440.00	Hours
Factors	440	Hours							
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	25.00	Hours
Factors	25	Hours							
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	77.00	Hours
Factors	77	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	200.00	Hours
Factors	200	Hours							
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	152.00	Hours
Factors	152	Hours							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	31,364.94	Dollars
Factors	100890	Dollars	0.41	adi. Factor	0.75825	adi. To remv. Waste costs			

Line Item 2CDEDAEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Denarment		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	329.00	Hours
Factors	329	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	1,756.00	Hours
Factors	1756	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	256.00	Hours
Factors	256	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	855.00	Hours
Factors	950	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1,368.01	Hours
Factors	2460	Hours	0.5561 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	3,662.00	Hours
Factors	3662	Hours							

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750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	66.00	Hours
Factors	66	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	351.00	Hours
Factors	351	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	51.00	Hours
Factors	51	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	190.00	Hours
Factors	190	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	492.00	Hours
Factors	492	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	732.00	Hours
Factors	732	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	60,580.52	Dollars
Factors	245319	Dollars	0.41	adi. Factor	0.60231	adi. To remv. Waste costs		

Line Item 2CDEDAEE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	255.00	Hours
Factors	255 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	6.00	Hours
Factors	6 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	36.00	Hours
Factors	36 Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	132.75	Hours
Factors	242 Hours		0.54855 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	276.00	Hours
Factors	276 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	51.00	Hours
Factors	51 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	1.00	Hours
Factors	1 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	7.00	Hours
Factors	7 Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	48.00	Hours
Factors	48 Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	55.00	Hours
Factors	55 Hours									

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A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	10,231.55	Dollars
Factors	24955 Dollars	0.41	adi. Factor					

Line Item 2CDEDAIE0 - GB Internal Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,127.00	Hours
Factors	1127	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	62.00	Hours
Factors	62	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	268.20	Hours
Factors	298	Hours		0.9 adi. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	593.00	Hours
Factors	1186	Hours		0.5 4 to 1 adi. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,245.00	Hours
Factors	1245	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	225.00	Hours
Factors	225	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	12.00	Hours
Factors	12	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	60.00	Hours
Factors	60	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	237.00	Hours
Factors	237	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	249.00	Hours
Factors	249	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	25,213.19	Dollars
Factors	85886	Dollars		0.41 adi. Factor	0.71601	adi. To remv. Waste costs			
	A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	16,328.00	Dollars
Factors	16328	Dollars							

Line Item 2CDEDAIP0 - Reduce GB In Place

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
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WBS No: 1BAD01
Activity ID: 1B07A02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	80.00	Hours
Factors	80	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	7.927.00	Hours
Factors	7927	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	354.00	Hours
Factors	354	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	2.404.80	Hours
Factors	2672	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	5.100.50	Hours
Factors	7872	Hours	0.64793	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	12.475.00	Hours
Factors	12475	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	16.00	Hours
Factors	16	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	1.585.00	Hours
Factors	1585	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	71.00	Hours
Factors	71	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	534.00	Hours
Factors	534	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1.574.00	Hours
Factors	1574	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2.495.00	Hours
Factors	2495	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	189.870.90	Dollars
Factors	950906	Dollars	0.41	adi. Factor	0.48701	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	169.372.00	Dollars
Factors	169372	Dollars						

Line Item 2CDEDAPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.967.00	Hours
Factors	1967	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	69.00	Hours
Factors	69	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	259.20	Hours
Factors	288	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	525.00	Hours
Factors	456	Hours	1.15132 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	393.00	Hours
Factors	393	Hours							

WBS No: 1BAD01
Activity ID: 1B07A02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	14.00	Hours
Factors	14	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	58.00	Hours
Factors	58	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	91.00	Hours
Factors	91	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	26,032.54	Dollars
Factors	63494	Dollars	0.41	adi. Factor				

Line Item 2CDE**DASR0 - Remove GB to Size Reduce**

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	47.00	Hours
Factors	47 Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3,719.00	Hours
Factors	3719 Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	149.00	Hours
Factors	149 Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	996.30	Hours
Factors	1107 Hours		0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	2,058.00	Hours
Factors	3137 Hours		0.65604 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4,513.00	Hours
Factors	4513 Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	9.00	Hours
Factors	9 Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	744.00	Hours
Factors	744 Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	30.00	Hours
Factors	30 Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers	Linear	486.00	Hours
Factors	2 waste inspectors		3 shifts		9 hours/shift		9 GB equivalents		
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	243.00	Hours
Factors	1 foreman		3 shifts		9 hours/shift		9 GB equivalents		
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	221.00	Hours
Factors	221 Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	627.00	Hours
Factors	627 Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	486.00	Hours
Factors	2 RCTs		3 shifts		9 hours/shift		9 GB equivalents		
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	903.00	Hours
Factors	903 Hours								

WBS No: 1BAD01
Activity ID: 1B07A02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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WBS Filter 1BAD
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751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1,944.00	Hours
Factors	8 D&D workers		3 shifts		9 hours/shift	9 GB equivalents		
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	16,875.00	Dollars
Factors	625 dollars/shift		3 shifts			9 GB equivalents		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	98,846.24	Dollars
Factors	387430 Dollars		0.41 adi. Factor		0.62228 adi. To remv. Waste costs			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	69,869.00	Dollars
Factors	69869 Dollars							

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	548,557.60	Dollars
Factors	548558 Dollars				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	259,725.90	Dollars
Factors	259726 Dollars				

Activity ID: 1B07A03500

Description: IWCP Execution Trades - Module A

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEETADC0	Decontaminate Set	1.00	each	HC	0	0	0	143,017	0	143,017	0	143,017
2CDEETADR0	Duct Removal	1.00	each	HC	0	0	0	25,378	0	25,378	0	25,378
2CDEETAEA0	Electrical & Alarms	1.00	each	HC	0	0	0	212,530	0	212,530	0	212,530
2CDEETAEEO	External Equipment Removal	1.00	each	HC	0	0	0	17,768	0	17,768	0	17,768
2CDEETAPR0	Pipe Removal	1.00	each	HC	0	0	0	18,699	0	18,699	0	18,699
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	103,716	103,716	0	103,716
Total for Activity 1B07A03500:						0	0	417,392	103,716	521,108	0	521,108

Line Item 2CDEETADC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
A5B CONSTRUCTION	C120 D&D SKILLED TRADES	KB20C Building Trades Proj B Estimating Only	Linear	137,017.00	Dollars
Factors	326231 Dollars				
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	6,000.00	Dollars
Factors	6000 dollars				

Line Item 2CDEETADR0 - Duct Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1BAD01
Activity ID: 1B07A03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	19,378.00	Dollars
Factors	19378	Dollars						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars
Factors	6000	Dollars						

Line Item 2CDETAEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	206,530.10	Dollars	
Factors	333113	Dollars	0.62	adi. Factor					
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars	
Factors	6000	dollars							

Line Item 2CDETAEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	11,768.40	Dollars	
Factors	28020	Dollars	0.42	adi. Factor					
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars	
Factors	6000	dollars							

Line Item 2CDETAAPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	12,699.00	Dollars	
Factors	12699	Dollars							
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars	
Factors	6000	dollars							

Line Item SYS - Contingency And Escalation

BOE

WBS No: 1BAD01
Activity ID: 1B07A03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	71.043.63	Dollars
Factors	71043.6 Dollars					
ESC	ESCALATION	0000 NONE	ZDEPT No Department	Linear	32.672.33	Dollars
Factors	32672.3 Dollars					

WBS No: 1BAD02		Title: Decommissioning Set 2 Module B										
Activity ID: 1B07B00500		Description: IWCP Development - Module B							Cost Risk 2		Schedule Risk 2	
Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEBPL0	D&D B MODULE SET 2 PLANNING & ENGINEERING	1.00	each	HC	4.416	4.416	131.187	388.256	0	519.443	43.725	563.168
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	106.629	106.629	0	106.629
Total for Activity 1B07B00500:						4.416	131.187	388.256	106.629	626.072	43.725	669.796

Line Item 2CDPEBPL0 - D&D B MODULE SET 2 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	268.80	Hours
Factors	1 Engineer	896 hours	0.3 adi Factor			
750	STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	695.00	Hours
Factors	1 engineer	695 hours				
750	STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	680.00	Hours
Factors	1 engineer	1360 hours	0.5 adi Factor			
750	STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	1.907.00	Hours
Factors	4 Engineers	1907 hours	0.25 adi Factor			
750	STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	785.20	Hours
Factors	2 Admin Assist.	1963 hours	0.2 adi Factor			
750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)	40 hours				
A57	LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	173.364.90	Dollars
Factors	6 planners	1631 hours	63.27 Dollars per hour	0.28 adi Factor		
A5C	SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors	86685 dollars	0 adi Factor				
A5H	SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	21.398.02	Dollars
Factors	1343 hours	53.11 \$/hr	0.3 adi Factor			
A5H	SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	74.284.18	Dollars
Factors	1042 hours	71.29 \$/hr				
A5H	SUBCONTRACTED SRVS	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	74.312.81	Dollars
Factors	2041 hours	72.82 \$/hr	0.5 adi Factor			
A5H	SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	20.126.29	Dollars
Factors	644 hours	96.16 \$/hr	0.5 adi Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	24.769.92	Dollars
Factors	798 hours	77.6 \$/hr	0.4 adi Factor			
A5H	SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors	474698 Powertool balance adj.	0 adi factor for 11.9 % reduction				

WBS No: 1BAD02
Activity ID: 1B07B00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	67.105.80	Dollars
	Factors 67105.8 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	39.522.72	Dollars
	Factors 39522.7 Dollars								

Activity ID: 1B07B02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDBCV0	Remove Chainveyors to SR	1.00	each	HC	46.159	46.159	1,183.522	416.830	0	1,600.352	378.179	1,978.530
2CDEDBDC0	Decontaminate Set	1.00	each	HC	2.396	2.396	54.490	22.087	0	76.577	17.412	93.988
2CDEDBDR0	Duct Removal	1.00	each	HC	4.255	4.255	99.226	40.292	0	139.518	31.706	171.224
2CDEDBEA0	Electrical & Alarms	1.00	each	HC	10.920	10.920	256.727	74.875	0	331.602	82.034	413.636
2CDEDBEE0	External Equipment Removal	1.00	each	HC	6.067	6.067	140.332	42.157	0	182.489	44.841	227.331
2CDEDBIE0	GB Internal Equipment Removal	1.00	each	HC	2.126	2.126	49.843	31.120	0	80.964	15.927	96.890
2CDEDBIP0	Reduce GB In Place	1.00	each	HC	23.359	23.359	545.611	240.313	0	785.924	174.343	960.267
2CDEDBPR0	Pipe Removal	1.00	each	HC	5.016	5.016	116.595	32.190	0	148.785	37.257	186.042
2CDEDBSR0	Remove GB to Size Reduce	1.00	each	HC	14.452	14.452	352.566	139.025	0	491.591	112.658	604.249
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	1.039.722	1,039.722	0	1,039.722
Total for Activity 1B07B02500:						114.749	2,798.914	1,038.888	1,039.722	4,877.524	894.356	5,771.880

Line Item 2CDEDBCV0 - Remove Chainveyors to SR

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	82.00	Hours
Factors	82 Hours								
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	7.818.00	Hours	
Factors	7818 Hours								
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	282.00	Hours	
Factors	282 Hours								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	2,022.30	Hours	
Factors	2247 Hours 0.9 adi. to allocate Waste Ops foremen								
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	5,144.75	Hours	
Factors	7388 Hours 0.69637 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	12,761.00	Hours	
Factors	12761 Hours								
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	16.00	Hours	
Factors	16 Hours								
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	1,564.00	Hours	
Factors	1564 Hours								
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	56.00	Hours	
Factors	56 Hours								
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers	Linear	1,836.00	Hours	
Factors	2 waste inspectors 3 shifts 9 hours/shift 34 GB equivalents								

WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	918.00	Hours
Factors	1 foreman	3 shifts	9 hours/shift	34	GB equivalents			
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	449.00	Hours
Factors	449 Hours							
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	1,478.00	Hours
Factors	1478 Hours							
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	1,836.00	Hours
Factors	2 RCTs	3 shifts	9 hours/shift	34	GB equivalents			
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,552.00	Hours
Factors	2552 Hours							
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	7,344.00	Hours
Factors	8 D&D workers	3 shifts	9 hours/shift	34	GB equivalents			
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	63,750.00	Dollars
Factors	625 dollars/shift	3 shifts		34	GB equivalents			
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	192,277.80	Dollars
Factors	949527 Dollars	0.47 adi. Factor	0.43085 adi. To remv. Waste costs					
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	160,802.00	Dollars
Factors	160802 Dollars							

Line Item 2CDEDBDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours							
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	382.50	Hours
Factors	275	Hours	1.39091 4 to 1 adi. Factor						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,498.00	Hours
Factors	1498	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	55.00	Hours
Factors	55	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	300.00	Hours
Factors	300	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	22,086.71	Dollars
Factors	46993	Dollars	0.47 adi. Factor						

Line Item 2CDEDBDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data:
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WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,750.00	Hours
Factors	1750	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	111.00	Hours
Factors	111	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	290.70	Hours
Factors	323	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	616.00	Hours
Factors	877	Hours	0.70239	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	714.00	Hours
Factors	714	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	350.00	Hours
Factors	350	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	22.00	Hours
Factors	22	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	65.00	Hours
Factors	65	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	175.00	Hours
Factors	175	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	143.00	Hours
Factors	143	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	40,291.69	Dollars
Factors	85727	Dollars	0.47	adi. Factor				

Line Item 2CDEDBEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	302.00	Hours
Factors	302	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,900.00	Hours
Factors	1900	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	261.00	Hours
Factors	261	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	920.70	Hours
Factors	1023	Hours	0.9	adi. to allocate Waste Ops foremen				

WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
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Starts In FY *

750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,463.00	Hours
Factors	2721	Hours	0.53767	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	3,952.00	Hours
Factors	3952	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	60.00	Hours
Factors	60	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	380.00	Hours
Factors	380	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	52.00	Hours
Factors	52	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	205.00	Hours
Factors	205	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	544.00	Hours
Factors	544	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	790.00	Hours
Factors	790	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilitv Disposition	Linear	74,874.79	Dollars
Factors	265691	Dollars	0.47	adi. Factor	0.5996	adi. To remv. Waste costs		

Line Item 2CDEDBEE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facilitv Disposition	Linear	1,893.00	Hours
Factors	1893 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	49.00	Hours
Factors	49 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facilitv Disposition	Linear	110.00	Hours
Factors	110 Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLIGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	945.25	Hours
Factors	1874 Hours			0.5044 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facilitv Disposition	Linear	1,888.00	Hours
Factors	1888 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facilitv Disposition	Linear	379.00	Hours
Factors	379 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	10.00	Hours
Factors	10 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facilitv Disposition	Linear	22.00	Hours
Factors	22 Hours									

WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Starts In FY *

751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	375.00	Hours
Factors	375	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	378.00	Hours
Factors	378	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	42,156.86	Dollars
Factors	153525	Dollars	0.47	adi. Factor	0.58424	adi. To remv. Waste costs		

Line Item 2CDEDBIE0 - GB Internal Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	587.00	Hours
Factors	587	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	34.00	Hours
Factors	34	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	138.60	Hours
Factors	154	Hours		0.9 adi. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	306.25	Hours
Factors	607	Hours		0.50453 4 to 1 adi. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	638.00	Hours
Factors	638	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	117.00	Hours
Factors	117	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	31.00	Hours
Factors	31	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	121.00	Hours
Factors	121	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	128.00	Hours
Factors	128	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	22,405.37	Dollars
Factors	47671	Dollars		0.47 adi. Factor					
	A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	8,715.00	Dollars
Factors	8715	Dollars							

Line Item 2CDEDBIP0 - Reduce GB In Place

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot
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WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	74.00	Hours
Factors	74	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	5,269.00	Hours
Factors	5269	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	248.00	Hours
Factors	248	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,745.10	Hours
Factors	1939	Hours						
		0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	3,417.99	Hours
Factors	5070	Hours						
		0.67416 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	8,403.00	Hours
Factors	8403	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,054.00	Hours
Factors	1054	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	50.00	Hours
Factors	50	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	388.00	Hours
Factors	388	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	1,014.00	Hours
Factors	1014	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,681.00	Hours
Factors	1681	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	125,611.80	Dollars
Factors	629412	Dollars						
		0.422 adi. Factor						
		0.47292 adi. To remv. Waste costs						
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	114,701.00	Dollars
Factors	114701	Dollars						

Line Item 2CDEDBPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,849.00	Hours
Factors	2849	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	98.00	Hours
Factors	98	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	365.40	Hours
Factors	406	Hours						
		0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	745.50	Hours
Factors	633	Hours						
		1.17773 4 to 1 adi. Factor						

WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	570.00	Hours
Factors	570	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	20.00	Hours
Factors	20	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	81.00	Hours
Factors	81	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	127.00	Hours
Factors	127	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	32,190.02	Dollars
Factors	89766	Dollars	0.47	adi. Factor	0.76298	adi. To remv. Waste costs		

Line Item 2CDEDBSR0 - Remove GB to Size Reduce

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	38.00	Hours
Factors	38	Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	2,855.00	Hours
Factors	2855	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II /FLTTC. WS		KB20H	B707 Facilities Management	Linear	116.00	Hours
Factors	116	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	798.30	Hours
Factors	887	Hours		0.9	adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,893.00	Hours
Factors	2790	Hours		0.6785	4 to 1 adi. Factor					
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	4,717.00	Hours
Factors	4717	Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	571.00	Hours
Factors	571	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II /FLTTC. WS		KB20H	B707 Facilities Management	Linear	23.00	Hours
Factors	23	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II /FLTTC. WS		KD10H	776 Complex Steelworkers	Linear	270.00	Hours
Factors	2	waste inspectors		3	shifts		9 hours/shift	5	GB equivalents	
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		K399S	Building 776 Project	Linear	135.00	Hours
Factors	1	foreman		3	shifts		9 hours/shift	5	GB equivalents	
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	177.00	Hours
Factors	177	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	558.00	Hours
Factors	558	Hours								

WBS No: 1BAD02
Activity ID: 1B07B02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	270.00	Hours
Factors	2		3 shifts		9 hours/shift	5	GB equivalents	
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	943.00	Hours
Factors	943							
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1,080.00	Hours
Factors	8		3 shifts		9 hours/shift	5	GB equivalents	
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	9,375.00	Dollars
Factors	625		3 shifts			5	GB equivalents	
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	65,466.09	Dollars
Factors	352056		0.47 adi. Factor		0.39565 adi. To remv. Waste costs			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	64,184.00	Dollars
Factors	64184							

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	639,850.30	Dollars
Factors	639850				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	399,871.90	Dollars
Factors	399872				

Activity ID: 1B07B03500

Description: IWCP Execution Trades - Module B

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETBDC0	Decontaminate Set	1.00	each	HC	0	0	0	110,394	0	110,394	0	110,394
2CDETBDR0	Duct Removal	1.00	each	HC	0	0	0	22,345	0	22,345	0	22,345
2CDETBEA0	Electrical & Alarms	1.00	each	HC	0	0	0	193,842	0	193,842	0	193,842
2CDETBEE0	External Equipment Removal	1.00	each	HC	0	0	0	72,049	0	72,049	0	72,049
2CDETBPR0	Pipe Removal	1.00	each	HC	0	0	0	23,953	0	23,953	0	23,953
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	91,437	91,437	0	91,437
Total for Activity 1B07B03500:						0	0	422,582	91,437	514,019	0	514,019

Line Item 2CDETBDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
A5B CONSTRUCTION	C120 D&D SKILLED TRADES	KB20C Building Trades Proj B Estimating Only	Linear	104,393.90	Dollars
Factors	326231				
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	6,000.00	Dollars
Factors	6000				

Line Item 2CDETBDR0 - Duct Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -

WBS No: 1BAD02
Activity ID: 1B07B03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	16.345.00	Dollars
Factors		16345	Dollars						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item 2CDETBEO - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	187.841.70	Dollars
Factors		361234	Dollars		0.52 adi. Factor				
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item 2CDETBEO - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	66.048.64	Dollars
Factors		206402	Dollars		0.32 adi. Factor				
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item 2CDETBPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	17.953.00	Dollars
Factors		17953	Dollars						

WBS No: 1BAD02
Activity ID: 1B07B03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars
Factors	6000	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	47,146.89	Dollars
	Factors 47146.9 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	44,289.66	Dollars
	Factors 44289.7 Dollars								

WBS No: 1BAD03 Title: Decommissioning Set 3 Module C

Activity ID: 1B07C00500 Description: IWCP Development - Module C

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPECPL0	D&D C MODULE SET 3 PLANNING & ENGINEERING	1.00	each	HC	7.072	7.072	210.531	626.162	0	836.694	85.265	921.958
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	112.665	112.665	0	112.665
Total for Activity 1B07C00500:						7.072	210.531	626.162	112.665	949.358	85.265	1,034.623

Line Item 2CDPECPL0 - D&D C MODULE SET 3 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	433.20	Hours
Factors	1	Engineer		1444 hours		0.3 adi Factor			
	750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	1,120.00	Hours
Factors	1	engineer		1120 hours					
	750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	1,097.00	Hours
Factors	1	engineer		2194 hours		0.5 adi. Factor			
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	3,075.00	Hours
Factors	6	Engineers		2050 hours		0.25 adi. Factor			
	750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	1,266.60	Hours
Factors	3	Admin Assist.		2111 hours		0.2 adi. Factor			
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2	D&D Workers (walkdowns)		40 hours					
	A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	279,552.20	Dollars
Factors	6	planners		2630 hours		63.27 Dollars per hour	0.28 adi. Factor		
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	139807	dollars		0 adi. Factor					
	A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	34,526.81	Dollars
Factors	2167	hours		53.11 \$/hr		0.3 adi. Factor			
	A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	119,838.50	Dollars
Factors	1681	hours		71.29 \$/hr					
	A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	119,825.30	Dollars
Factors	3291	hours		72.82 \$/hr		0.5 adi. Factor			
	A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	32,470.83	Dollars
Factors	1039	hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		

WBS No: 1BAD03
Activity ID: 1B07C00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	39,948.48	Dollars
Factors	1287 hours		77.6 \$/hr	0.4	adi. Factor			

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	75,681.20	Dollars
Factors	75681.2 Dollars				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	36,983.51	Dollars
Factors	36983.5 Dollars				

Activity ID: 1B07C02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDCCV0	Remove Chainveyors to SR	1.00	each	HC	57.938	57.938	1,439.107	426.433	0	1,865.540	543.085	2,408.625
2CDEDCDC0	Decontaminate Set	1.00	each	HC	2.396	2.396	54.490	13.628	0	68.118	20.563	88.681
2CDEDCDR0	Duct Removal	1.00	each	HC	4.803	4.803	112.017	27.847	0	139.864	42.273	182.137
2CDEDCCEA0	Electrical & Alarms	1.00	each	HC	11.609	11.609	272.664	50.612	0	323.276	102.897	426.173
2CDEDCCE0	External Equipment Removal	1.00	each	HC	1.151	1.151	26.694	9.152	0	35.846	10.074	45.920
2CDEDCIE0	GB Internal Equipment Removal	1.00	each	HC	4.253	4.253	99.576	48.558	0	148.134	37.578	185.711
2CDEDCIP0	Reduce GB In Place	1.00	each	HC	66.488	66.488	1,551.079	518.664	0	2,069.743	585.341	2,655.084
2CDEDCPR0	Pipe Removal	1.00	each	HC	4.270	4.270	99.258	22.186	0	121.445	37.458	158.903
2CDEDCSR0	Remove GB to Size Reduce	1.00	each	HC	19.365	19.365	482.087	170.131	0	652.218	181.928	834.146
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	1,001.665	1,001.665	0	1,001.665
Total for Activity 1B07C02500:						172.272	4,136.973	1,287.212	1,001.665	6,425.849	1,561.196	7,987.045

Line Item 2CDEDCCV0 - Remove Chainveyors to SR

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	102.00	Hours
Factors	102 Hours				
750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	11,531.00	Hours
Factors	11531 Hours				
750 STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	346.00	Hours
Factors	346 Hours				
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	2,547.90	Hours
Factors	2831 Hours	0.9 adi. to allocate Waste Ops foremen			
750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Eng Envir. Sftv & Quality	Linear	7,245.50	Hours
Factors	10424 Hours	0.69508 4 to 1 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	17,451.00	Hours
Factors	17451 Hours				
751 OVERTIME BASE & PRE.	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	20.00	Hours
Factors	20 Hours				
751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	2,306.00	Hours
Factors	2306 Hours				
751 OVERTIME BASE & PRE.	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	69.00	Hours
Factors	69 Hours				

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC.H. WS	KD10H	776 Complex Steelworkers	Linear	1,566.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	29	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	783.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	29	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	566.00	Hours
Factors	566	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	2,085.00	Hours
Factors	2085	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	1,566.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	29	GB equivalents
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,490.00	Hours
Factors	3490	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	6,264.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	29	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	54,375.00	Dollars
Factors	625	dollars/shift	3	shifts	29	GB equivalents		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	116,616.80	Dollars
Factors	1333196	Dollars	0.26749	adi. Factor	0.32701	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	255,441.00	Dollars
Factors	255441	Dollars						

Line Item 2CDEDCDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	32.00	Hours
Factors	32	Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	118.00	Hours
Factors	118	Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality		Linear	382.50	Hours
Factors	275	Hours	1.39091 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	1,498.00	Hours
Factors	1498	Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	6.00	Hours
Factors	6	Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	4.00	Hours
Factors	4	Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality		Linear	55.00	Hours
Factors	55	Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	300.00	Hours
Factors	300	Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition		Linear	13,627.97	Dollars
Factors	46993	Dollars	0.29 adi. Factor								

Line Item 2CDEDCDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
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WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15		Hours					
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	2,031.00	Hours
Factors	2031		Hours					
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	110.00	Hours
Factors	110		Hours					
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	329.40	Hours
Factors	366		Hours	0.9	adi. to allocate Waste Ops foremen			
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	699.25	Hours
Factors	975		Hours	0.71718	4 to 1 adi. Factor			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	766.00	Hours
Factors	766		Hours					
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3		Hours					
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	406.00	Hours
Factors	406		Hours					
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	22.00	Hours
Factors	22		Hours					
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	73.00	Hours
Factors	73		Hours					
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	195.00	Hours
Factors	195		Hours					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	153.00	Hours
Factors	153		Hours					
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilityv Disposition	Linear	27,847.25	Dollars
Factors	96025		Dollars	0.29	adi. Factor			

Line Item 2CEDCEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	392.00	Hours
Factors	392		Hours					
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	1,985.00	Hours
Factors	1985		Hours					
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	295.00	Hours
Factors	295		Hours					

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	963.90	Hours
Factors	1071	Hours	0.9	adj. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,544.75	Hours
Factors	2779	Hours	0.55587	4 to 1 adj. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4,194.00	Hours
Factors	4194	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	79.00	Hours
Factors	79	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	397.00	Hours
Factors	397	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	59.00	Hours
Factors	59	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	214.00	Hours
Factors	214	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	556.00	Hours
Factors	556	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	839.00	Hours
Factors	839	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	50,611.93	Dollars
Factors	277972	Dollars	0.29	adj. Factor	0.62785	adj. To remv. Waste costs		

Line Item 2CDEDCEE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	337.00	Hours
Factors	337	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	40.00	Hours
Factors	40	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	174.75	Hours
Factors	319	Hours	0.54781	4 to 1 adj. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	362.00	Hours
Factors	362	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	67.00	Hours
Factors	67	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	1.00	Hours
Factors	1	Hours						

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	64.00	Hours
Factors	64	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	72.00	Hours
Factors	72	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	9,152.40	Dollars
Factors	31560	Dollars	0.29	adi. Factor				

Line Item 2CDEDCIE0 - GB Internal Equipment Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,199.00	Hours
Factors	1199	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	71.00	Hours
Factors	71	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	257.40	Hours
Factors	286	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	618.75	Hours
Factors	1237	Hours	0.50020	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,276.00	Hours
Factors	1276	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	240.00	Hours
Factors	240	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	14.00	Hours
Factors	14	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	57.00	Hours
Factors	57	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	247.00	Hours
Factors	247	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	255.00	Hours
Factors	255	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	26,780.05	Dollars
Factors	92345	Dollars	0.29	adi. Factor				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	21,778.00	Dollars
Factors	21778	Dollars						

Line Item 2CDEDCIP0 - Reduce GB In Place

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	145.00	Hours
Factors	145	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	16.058.00	Hours
Factors	16058	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	618.00	Hours
Factors	618	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.498.20	Hours
Factors	4998	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	9.836.25	Hours
Factors	15115	Hours	0.65076	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	23.287.00	Hours
Factors	23287	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	29.00	Hours
Factors	29	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3.212.00	Hours
Factors	3212	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	124.00	Hours
Factors	124	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1.000.00	Hours
Factors	1000	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	3.023.00	Hours
Factors	3023	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4.658.00	Hours
Factors	4658	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	154.909.90	Dollars
Factors	1844517	Dollars	0.29	adi. Factor	0.2896	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	363.754.00	Dollars
Factors	363754	Dollars						

Line Item 2CDEDCPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2.404.00	Hours
Factors	2404	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	83.00	Hours
Factors	83	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	312.30	Hours
Factors	347	Hours	0.9	adi. to allocate Waste Ops foremen				

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	634.25	Hours
Factors	544	Hours	1.16590	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	481.00	Hours
Factors	481	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	17.00	Hours
Factors	17	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	69.00	Hours
Factors	69	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	109.00	Hours
Factors	109	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	22,186.45	Dollars
Factors	76505	Dollars	0.29	adi. Factor				

Line Item 2CDEDCSR0 - Remove GB to Size Reduce

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	71.00	Hours
Factors	71	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	4,475.00	Hours
Factors	4475	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	199.00	Hours
Factors	199	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,294.20	Hours
Factors	1438	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	2,347.75	Hours
Factors	3416	Hours	0.68728	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4,916.00	Hours
Factors	4916	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	14.00	Hours
Factors	14	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	895.00	Hours
Factors	895	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	40.00	Hours
Factors	40	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers	Linear	486.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	9	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	243.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	9	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	288.00	Hours
Factors	288	Hours						

WBS No: 1BAD03
Activity ID: 1B07C02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	683.00	Hours
Factors	683	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	486.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	9	GB equivalents
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	983.00	Hours
Factors	983	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1,944.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	9	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	16,875.00	Dollars
Factors	625	dollars/shift	3	shifts			9	GB equivalents
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	57,348.88	Dollars
Factors	439134	Dollars	0.29	adi. Factor	0.45033	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	95,907.00	Dollars
Factors	95907	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	679,992.70	Dollars
Factors	679993	Dollars			
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	321,672.20	Dollars
Factors	321672	Dollars			

Activity ID: 1B07C03500

Description: IWCP Execution Trades - Module C

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETCDC0	Decontaminate Set	1.00	each	HC	0	0	0	133,230	0	133,230	0	133,230
2CDETCDR0	Duct Removal	1.00	each	HC	0	0	0	24,405	0	24,405	0	24,405
2CDETCEA0	Electrical & Alarms	1.00	each	HC	0	0	0	229,130	0	229,130	0	229,130
2CDETCEE0	External Equipment Removal	1.00	each	HC	0	0	0	19,320	0	19,320	0	19,320
2CDETCPR0	Pipe Removal	1.00	each	HC	0	0	0	21,301	0	21,301	0	21,301
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	107,634	107,634	0	107,634
Total for Activity 1B07C03500:						0	0	427,386	107,634	535,021	0	535,021

Line Item 2CDETCDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
A5B CONSTRUCTION	C120 D&D SKILLED TRADES	KB20C Building Trades Proj B Estimating Only	Linear	127,230.10	Dollars
Factors	326231	Dollars	0.39	adi. Factor	
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	6,000.00	Dollars
Factors	6000	dollars			

Line Item 2CDETCDR0 - Duct Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:

WBS No: 1BAD03
Activity ID: 1B07C03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	18.405.00	Dollars
Factors 18405 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars

Factors 6000 dollars

Line Item 2CDETC EA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	223.130.30	Dollars
Factors 378187 Dollars		0.59 adi. Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars

Factors 6000 dollars

Line Item 2CDETC EE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	13.320.06	Dollars
Factors 34154 Dollars		0.39 adi. Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars

Factors 6000 dollars

Line Item 2CDETC PR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

WBS No: 1BAD03
Activity ID: 1B07C03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
*

Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	15.301.00	Dollars
Factors 15301 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors 6000 dollars									

Line Item SYS - Contingency And Escalation

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	74.490.31	Dollars
Factors 74490.3 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	33.144.18	Dollars
Factors 33144.2 Dollars									

WBS No:	1BAD04	Title:	Decommissioning Set 4 Module D	Cost Risk	2	Schedule Risk	2
Activity ID:	1B07D00500	Description:	IWCP Development - Module D				

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEDPL0	D&D D MODULE SET 4 PLANNING & ENGINEERING	1.00	each	HC	3.610	3.610	107.103	376.549	0	483.652	44.937	528.589
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	49.837	49.837	0	49.837
Total for Activity 1B07D00500:						3.610	107.103	376.549	49.837	533.488	44.937	578.425

Line Item 2CDPEDPL0 - D&D D MODULE SET 4 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	218.70	Hours
Factors 1 Engineer 729 hours 0.3 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	566.00	Hours
Factors 1 engineer 566 hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	554.00	Hours
Factors 1 engineer 1108 hours 0.5 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	1.552.00	Hours
Factors 4 Engineers 1552 hours 0.25 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	639.20	Hours
Factors 2 Admin Assist. 1598 hours 0.2 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors 2 D&D Workers (walkdowns) 40 hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A52	TENERA	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	120.954.00	Dollars
Factors 1661 hours 72.82 \$/hr									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	141.157.90	Dollars
Factors 6 planners 1328 hours 63.27 Dollars per hour 0.28 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors 70565 dollars 0 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	17.430.70	Dollars
Factors 1094 hours 53.11 \$/hr 0.3 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	60.453.92	Dollars
Factors 848 hours 71.29 \$/hr									

WBS No: 1BAD04
Activity ID: 1B07D00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	16.376.05	Dollars
Factors	524 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	20.176.00	Dollars
Factors	650 hours		77.6 \$/hr		0.4 adi. Factor			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	497519 Powertool balance adi.		0 adi factor for 11.9 % reduction					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	32.932.4	Dollars
Factors	32932.4 Dollars				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	16.904.32	Dollars
Factors	16904.3 Dollars				

Activity ID: 1B07D02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDDCV0	Remove Chainveyors to SR	1.00	each	HC	30.901	30.901	717.260	393.572	0	1.110.832	285.013	1.395.845
2CDEDDDC0	Decontaminate Set	1.00	each	HC	2.396	2.396	54.490	27.256	0	81.746	21.652	103.398
2CDEDDDR0	Duct Removal	1.00	each	HC	6.935	6.935	161.352	77.619	0	238.971	64.115	303.086
2CDEDDDEA0	Electrical & Alarms	1.00	each	HC	8.281	8.281	194.025	71.396	0	265.421	77.098	342.520
2CDEDDDEF0	External Equipment Removal	1.00	each	HC	5.054	5.054	116.889	64.525	0	181.414	46.447	227.861
2CDEDDIE0	GB Internal Equipment Removal	1.00	each	HC	1.844	1.844	43.307	31.892	0	75.199	17.209	92.408
2CDEDDIP0	Reduce GB In Place	1.00	each	HC	13.260	13.260	310.715	186.636	0	497.351	123.467	620.818
2CDEDDPR0	Pipe Removal	1.00	each	HC	3.648	3.648	84.812	37.988	0	122.799	33.701	156.500
2CDEDDSR0	Remove GB to Size Reduce	1.00	each	HC	10.655	10.655	249.129	169.545	0	418.674	98.995	517.669
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	416.085	416.085	0	416.085
Total for Activity 1B07D02500:						82.972	1.931.978	1.060.429	416.085	3.408.493	767.698	4.176.191

Line Item 2CDEDDCV0 - Remove Chainveyors to SR

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	82.00	Hours
Factors	82 Hours				
750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	6.765.00	Hours
Factors	6765 Hours				
750 STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	259.00	Hours
Factors	259 Hours				
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	1.759.50	Hours
Factors	1955 Hours	0.9 adi. to allocate Waste Ops foremen			
750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Eng Envir. Sftv & Quality	Linear	4.656.00	Hours
Factors	6683 Hours	0.69669 4 to 1 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	11.859.00	Hours
Factors	11859 Hours				
751 OVERTIME BASE & PRE.	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	16.00	Hours
Factors	16 Hours				

WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,353.00	Hours
Factors	1353	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC.H.WS	KB20H	B707 Facilities Management	Linear	52.00	Hours
Factors	52	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	391.00	Hours
Factors	391	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,337.00	Hours
Factors	1337	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,372.00	Hours
Factors	2372	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	243,891.90	Dollars
Factors	860163	Dollars	0.54512	adi Factor	0.52015	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	149,680.00	Dollars
Factors	149680	Dollars						

Line Item 2CDEDDDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	32.00	Hours
Factors	32	Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	118.00	Hours
Factors	118	Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	382.50	Hours
Factors	275	Hours	1.39091 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	1,498.00	Hours
Factors	1498	Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	6.00	Hours
Factors	6	Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	4.00	Hours
Factors	4	Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	55.00	Hours
Factors	55	Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	300.00	Hours
Factors	300	Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition		Linear	27,255.94	Dollars
Factors	46993	Dollars	0.58		adi Factor						

Line Item 2CDEDDDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3.173.00	Hours
Factors	3173	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	230.00	Hours
Factors	230	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	480.60	Hours
Factors	534	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1.001.50	Hours
Factors	1220	Hours	0.82090 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	833.00	Hours
Factors	833	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	635.00	Hours
Factors	635	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	46.00	Hours
Factors	46	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	107.00	Hours
Factors	107	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	244.00	Hours
Factors	244	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	167.00	Hours
Factors	167	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	77.619.08	Dollars
Factors	133826	Dollars	0.58 adi Factor					

Line Item 2CDEDEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	411.00	Hours
Factors	411	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.435.00	Hours
Factors	1435	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	259.00	Hours
Factors	259	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	663.30	Hours
Factors	737	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1.072.25	Hours
Factors	1786	Hours	0.60036 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2.854.00	Hours
Factors	2854	Hours						

WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	82.00	Hours
Factors	82	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	287.00	Hours
Factors	287	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	52.00	Hours
Factors	52	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	147.00	Hours
Factors	147	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	357.00	Hours
Factors	357	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	571.00	Hours
Factors	571	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	71.396.38	Dollars
Factors	192063	Dollars	0.58	adi Factor	0.64092	adi. To remv. Waste costs		

Line Item 2CDEDEDEE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	1.576.00	Hours
Factors	1576 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	41.00	Hours
Factors	41 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	95.00	Hours
Factors	95 Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	786.50	Hours
Factors	1556 Hours		0.50546 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	1.570.00	Hours
Factors	1570 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	315.00	Hours
Factors	315 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	8.00	Hours
Factors	8 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	19.00	Hours
Factors	19 Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	311.00	Hours
Factors	311 Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	314.00	Hours
Factors	314 Hours									

WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	64,525.32	Dollars
Factors	128492 Dollars	0.58	adi Factor	0.86582	adi. To remv. Waste costs			

Line Item 2CDEDDIE0 - GB Internal Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	505.00	Hours
Factors	505	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	26.00	Hours
Factors	26	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	128.70	Hours
Factors	143	Hours		0.9 adi. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	264.25	Hours
Factors	525	Hours		0.50333 4 to 1 adi. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	552.00	Hours
Factors	552	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	101.00	Hours
Factors	101	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	5.00	Hours
Factors	5	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	29.00	Hours
Factors	29	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	105.00	Hours
Factors	105	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	110.00	Hours
Factors	110	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	24,321.14	Dollars
Factors	41933	Dollars		0.58 adi Factor					
	A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	7,571.00	Dollars
Factors	7571	Dollars							

Line Item 2CDEDDIP0 - Reduce GB In Place

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
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WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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WBS Filter
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Starts In FY *

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	39.00	Hours
Factors	39	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	3,263.00	Hours
Factors	3263	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	149.00	Hours
Factors	149	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	1,036.80	Hours
Factors	1152	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,920.75	Hours
Factors	3131	Hours	0.61346	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	4,420.00	Hours
Factors	4420	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	653.00	Hours
Factors	653	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	30.00	Hours
Factors	30	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	230.00	Hours
Factors	230	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	626.00	Hours
Factors	626	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	884.00	Hours
Factors	884	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	119,695.30	Dollars
Factors	361544	Dollars	0.58	adi Factor	0.57081	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	66,941.00	Dollars
Factors	66941	Dollars						

Line Item 2CDEDDPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,034.00	Hours
Factors	2034	Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management		Linear	71.00	Hours
Factors	71	Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition		Linear	267.30	Hours
Factors	297	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality		Linear	541.75	Hours
Factors	470	Hours	1.15266 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition		Linear	133.00	Hours
Factors	133	Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition		Linear	407.00	Hours
Factors	407	Hours							

WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	14.00	Hours
Factors	14	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	59.00	Hours
Factors	59	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	94.00	Hours
Factors	94	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	37.987.68	Dollars
Factors	65496	Dollars	0.58	adi Factor				

Line Item 2CDEDDSR0 - Remove GB to Size Reduce

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	50.00	Hours
Factors	50	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,739.00	Hours
Factors	2739	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	130.00	Hours
Factors	130	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	826.20	Hours
Factors	918	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1,547.50	Hours
Factors	2263	Hours	0.68383 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,451.00	Hours
Factors	3451	Hours							
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	10.00	Hours
Factors	10	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	548.00	Hours
Factors	548	Hours							
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	26.00	Hours
Factors	26	Hours							
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	184.00	Hours
Factors	184	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	453.00	Hours
Factors	453	Hours							
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	690.00	Hours
Factors	690	Hours							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	116,424.70	Dollars
Factors	286939	Dollars	0.58 adi Factor 0.69956 adi. To remv. Waste costs						
A5H	SUBCONTRACTED SRVS		E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	53,120.00	Dollars
Factors	53120	Dollars							

Line Item SYS - Contingency And Escalation

BOE

Resources	<i>Cost Element</i>	<i>Skill</i>	<i>Department</i>	<i>Curve</i>	<i>Quantity</i>	<i>Units</i>
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WBS No: 1BAD04
Activity ID: 1B07D02500

Rockv Flats Closure Project
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WBS Filter 1BAD
Activity Filter *

CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	276,363.30	Dollars
Factors 276363 Dollars								
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	139,722.20	Dollars
Factors 139722 Dollars								

Activity ID: 1B07D03500 Description: IWCP Execution Trades - Module D

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETDCC0	Decontaminate Set	1.00	each	HC	0	0	0	129.968	0	129.968	0	129.968
2CDETDRC0	Duct Removal	1.00	each	HC	0	0	0	31.965	0	31.965	0	31.965
2CDETDCA0	Electrical & Alarms	1.00	each	HC	0	0	0	156.567	0	156.567	0	156.567
2CDETDCE0	External Equipment Removal	1.00	each	HC	0	0	0	71.302	0	71.302	0	71.302
2CDETDPR0	Pipe Removal	1.00	each	HC	0	0	0	19.099	0	19.099	0	19.099
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	114.501	114.501	0	114.501
Total for Activity 1B07D03500:						0	0	408.901	114.501	523.402	0	523.402

Line Item 2CDETDCC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	123.967.00
Factors		326231 Dollars	0.38	adi Factor			
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00
Factors		6000 dollars					

Line Item 2CDETDRC0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	25.965.00
Factors		25965 Dollars					
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00
Factors		6000 dollars					

Line Item 2CDETDCA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot
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WBS No: 1BAD04
Activity ID: 1B07D03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	150.567.40	Dollars
Factors 259599 Dollars		0.58 adi Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors 6000 dollars								

Line Item 2CDETDDE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	65.301.86	Dollars
Factors 171847 Dollars		0.38 adi Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors 6000 dollars								

Line Item 2CDETDPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	13.099.00	Dollars
Factors 13099 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors 6000 dollars								

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	83.144.50	Dollars
Factors 83144.5 Dollars								
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	31.356.69	Dollars
Factors 31356.7 Dollars								

WBS No: 1BAD05 Title: Decommissioning Set 5 Module E

Activity ID: 1B07E00500 Description: IWCP Development - Module E

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEEPL0	D&D E MODULE SET 5 PLANNING & ENGINEERING	1.00	each	HC	3.593	3.593	106.582	312.584	0	419.166	41.021	460.186

WBS No: 1BAD05
Activity ID: 1B07E00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	69.820	69.820	0	69.820
Total for Activity 1B07E00500:						3.593	106.582	312.584	69.820	488.985	41.021	530.006

Line Item 2CDPEEPL0 - D&D E MODULE SET 5 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department	Curve	Quantity	Units
	750 STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	216.00	Hours
Factors	1 Engineer		720 hours		0.3 adi Factor			
	750 STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	559.00	Hours
Factors	1 engineer		559 hours					
	750 STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	547.00	Hours
Factors	1 engineer		1094 hours		0.5 adi. Factor			
	750 STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	1,552.00	Hours
Factors	4 Engineers		1552 hours		0.25 adi. Factor			
	750 STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	639.20	Hours
Factors	2 Admin Assist.		1598 hours		0.2 adi. Factor			
	750 STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)		40 hours					
	A57 LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	139,457.20	Dollars
Factors	6 planners		1312 hours		63.27 Dollars per hour	0.28 adi. Factor		
	A5C SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	69728 dollars		0 adi. Factor					
	A5H SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	17,223.57	Dollars
Factors	1081 hours		53.11 \$/hr		0.3 adi. Factor			
	A5H SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	59,741.02	Dollars
Factors	838 hours		71.29 \$/hr					
	A5H SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	59,858.04	Dollars
Factors	1644 hours		72.82 \$/hr		0.5 adi. Factor			
	A5H SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Ena Envir. Sftv & Quality	Linear	16,376.05	Dollars
Factors	524 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety end.		
	A5H SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	19,927.68	Dollars
Factors	642 hours		77.6 \$/hr		0.4 adi. Factor			
	A5H SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	545357 Powertool balance adi.		0 adi factor for 11.9 % reduction					

Line Item SYS - Contingency And Escalation

Resources	Cost Element		Skill		Department	Curve	Quantity	Units
	CON CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	46,422.34	Dollars
Factors	46422.3 Dollars							
	ESC ESCALATION	0000	NONE	ZDEPT	No Department	Linear	23,397.46	Dollars
Factors	23397.5 Dollars							

Activity ID: 1B07E02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDEC00	Remove Chainveyors to SR	1.00	each	HC	19.959	19.959	464,708	263,636	0	728,344	167,729	896,073

WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
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2CDEDEDC0	Decontaminate Set	1.00	each	HC	2.373	2.373	54.023	27.726	0	81.749	19.499	101.248	
2CDEDEDR0	Duct Removal	1.00	each	HC	5.165	5.165	120.407	60.450	0	180.857	43.459	224.316	
2CDEDEEA0	Electrical & Alarms	1.00	each	HC	7.634	7.634	178.899	74.991	0	253.890	64.571	318.461	
2CDEDEEE0	External Equipment Removal	1.00	each	HC	1.502	1.502	34.933	23.989	0	58.922	12.608	71.531	
2CDEDEIE0	GB Internal Equipment Removal	1.00	each	HC	2.268	2.268	53.273	39.360	0	92.633	19.228	111.861	
2CDEDEIP0	Reduce GB In Place	1.00	each	HC	17.847	17.847	415.622	232.779	0	648.401	150.012	798.413	
2CDEDEPR0	Pipe Removal	1.00	each	HC	4.307	4.307	100.122	45.522	0	145.644	36.138	181.782	
2CDEDESR0	Remove GB to Size Reduce	1.00	each	HC	19.807	19.807	463.048	313.545	0	776.593	167.130	943.722	
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	675.706	675.706	0	675.706	
Total for Activity 1B07E02500:						80.862	1.885.035	1.081.998	675.706	3.642.739	680.372	4.323.112	

Line Item 2CDEDECV0 - Remove Chainveyors to SR

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources		Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	62.00	Hours		
Factors	62	Hours								
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	4.454.00	Hours		
Factors	4454	Hours								
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	203.00	Hours		
Factors	203	Hours								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1.290.60	Hours		
Factors	1434	Hours	0.9	adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	2.962.50	Hours		
Factors	4404	Hours	0.67268	4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	7.396.00	Hours		
Factors	7396	Hours								
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	12.00	Hours		
Factors	12	Hours								
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	891.00	Hours		
Factors	891	Hours								
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	41.00	Hours		
Factors	41	Hours								
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	287.00	Hours		
Factors	287	Hours								
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	881.00	Hours		
Factors	881	Hours								
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1.479.00	Hours		
Factors	1479	Hours								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	164.689.20	Dollars		
Factors	550317	Dollars	0.53549	adi Factor	0.55886	adi. To remv. Waste costs				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	98.947.00	Dollars		
Factors	98947	Dollars								

Line Item 2CDEDEDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
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WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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1BAD
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Starts In FY *

Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	360.00	Hours
Factors	275	Hours						
		1.30909 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,498.00	Hours
Factors	1498	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	55.00	Hours
Factors	55	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	300.00	Hours
Factors	300	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	27,725.87	Dollars
Factors	46993	Dollars						
		0.59 adi Factor						

Line Item 2CDEDEDRO - Duct Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,240.00	Hours
Factors	2240	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	127.00	Hours
Factors	127	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	354.60	Hours
Factors	394	Hours						
		0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	751.50	Hours
Factors	1017	Hours						
		0.73894 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	766.00	Hours
Factors	766	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						

WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	448.00	Hours
Factors	448	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	25.00	Hours
Factors	25	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	79.00	Hours
Factors	79	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	203.00	Hours
Factors	203	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	153.00	Hours
Factors	153	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	60.449.63	Dollars
Factors	102457	Dollars	0.59	adi Factor				

Line Item 2CDEDEEA0 - Electrical & Alarms

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	365.00	Hours
Factors	365	Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	1,340.00	Hours
Factors	1340	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	236.00	Hours
Factors	236	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	613.80	Hours
Factors	682	Hours		0.9	adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	989.75	Hours
Factors	1658	Hours		0.59695	4 to 1 adi. Factor					
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	2,619.00	Hours
Factors	2619	Hours								
750	STRAIGHT TIME BASE		T070	MAINT. TECHS. (INSTRUMENT TEC		KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	73.00	Hours
Factors	73	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	268.00	Hours
Factors	268	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	47.00	Hours
Factors	47	Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	136.00	Hours
Factors	136	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	332.00	Hours
Factors	332	Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	524.00	Hours
Factors	524	Hours								
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	74,991.04	Dollars
Factors	177951	Dollars		0.59	adi Factor		0.71426	adi. To rmv. Waste costs		

WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item 2CDEDEEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours					
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	440.00	Hours
Factors	440	Hours					
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemet	Linear	11.00	Hours
Factors	11	Hours					
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	51.00	Hours
Factors	51	Hours					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	227.25	Hours
Factors	462	Hours	0.49188 .4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	469.00	Hours
Factors	469	Hours					
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours					
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	88.00	Hours
Factors	88	Hours					
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemet	Linear	2.00	Hours
Factors	2	Hours					
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	10.00	Hours
Factors	10	Hours					
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	92.00	Hours
Factors	92	Hours					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	94.00	Hours
Factors	94	Hours					
A5C	SUPPLIES	0000	NONE	KB30S B707 Facility Disposition	Linear	23.989.40	Dollars
Factors	40660	Dollars	0.59 adi Factor				

Line Item 2CDEDEIE0 - GB Internal Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours					
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	598.00	Hours
Factors	598	Hours					

WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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WBS Filter
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Starts In FY *

750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	36.00	Hours
Factors	36	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	163.80	Hours
Factors	182	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	323.75	Hours
Factors	645	Hours	0.50194	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	697.00	Hours
Factors	697	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	120.00	Hours
Factors	120	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	36.00	Hours
Factors	36	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	129.00	Hours
Factors	129	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	139.00	Hours
Factors	139	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	30.025.10	Dollars
Factors	50890	Dollars	0.59	adi Factor				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	9.335.00	Dollars
Factors	9335	Dollars						

Line Item 2CDEDEIP0 - Reduce GB In Place

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	32.00	Hours
Factors	32 Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	4.190.00	Hours
Factors	4190 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	145.00	Hours
Factors	145 Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1.108.80	Hours
Factors	1232 Hours		0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	2.665.25	Hours
Factors	4109 Hours		0.64864 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	6.471.00	Hours
Factors	6471 Hours							
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	6.00	Hours
Factors	6 Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	838.00	Hours
Factors	838 Hours							

WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	29.00	Hours
Factors	29	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	246.00	Hours
Factors	246	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	822.00	Hours
Factors	822	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,294.00	Hours
Factors	1294	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	144,614.90	Dollars
Factors	504432	Dollars	0.59 adi Factor		0.48591 adi. To remv. Waste costs			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	88,164.00	Dollars
Factors	88164	Dollars						

Line Item 2CDEDEPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	2,426.00	Hours
Factors	2426	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTCCH. WS		KB20H	B707 Facilities Management	Linear	84.00	Hours
Factors	84	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	315.00	Hours
Factors	350	Hours	0.9 adi. to allocate Waste Ops foremen							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	639.75	Hours
Factors	548	Hours	1.16743 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	485.00	Hours
Factors	485	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTCCH. WS		KB20H	B707 Facilities Management	Linear	17.00	Hours
Factors	17	Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	70.00	Hours
Factors	70	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	110.00	Hours
Factors	110	Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours								
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	45,522.04	Dollars
Factors	77156	Dollars	0.59 adi Factor							

Line Item 2CDEDESR0 - Remove GB to Size Reduce

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot
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WBS No: 1BAD05
Activity ID: 1B07E02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	61.00	Hours
Factors 61 Hours					
750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	5.159.00	Hours
Factors 5159 Hours					
750 STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	219.00	Hours
Factors 219 Hours					
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	1.533.60	Hours
Factors 1704 Hours	0.9 adi. to allocate Waste Ops foremen				
750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Env Envir. Sftv & Quality	Linear	2.889.75	Hours
Factors 4180 Hours	0.69133 4 to 1 adi. Factor				
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	6.400.00	Hours
Factors 6400 Hours					
751 OVERTIME BASE & PRE.	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	12.00	Hours
Factors 12 Hours					
751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	1.032.00	Hours
Factors 1032 Hours					
751 OVERTIME BASE & PRE.	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	44.00	Hours
Factors 44 Hours					
751 OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	341.00	Hours
Factors 341 Hours					
751 OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Env Envir. Sftv & Quality	Linear	836.00	Hours
Factors 836 Hours					
751 OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	1.280.00	Hours
Factors 1280 Hours					
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	217.308.80	Dollars
Factors 537812 Dollars	0.59 adi Factor	0.68485 adi. To remv. Waste costs			
A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	96.236.00	Dollars
Factors 96236 Dollars					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	464.391.30	Dollars
Factors 464391 Dollars					
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	211.315.00	Dollars
Factors 211315 Dollars					

Activity ID: 1B07E03500

Description: IWCP Execution Trades - Module E

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETEDC0	Decontaminate Set	1.00	each	HC	0	0	0	156.066	0	156.066	0	156.066
2CDETEDR0	Duct Removal	1.00	each	HC	0	0	0	25.691	0	25.691	0	25.691
2CDETEEA0	Electrical & Alarms	1.00	each	HC	0	0	0	164.479	0	164.479	0	164.479
2CDETEEE0	External Equipment Removal	1.00	each	HC	0	0	0	28.263	0	28.263	0	28.263
2CDETEPR0	Pipe Removal	1.00	each	HC	0	0	0	21.431	0	21.431	0	21.431
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	56.966	56.966	0	56.966
Total for Activity 1B07E03500:						0	0	395.931	56.966	452.897	0	452.897

Line Item 2CDETEDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779

WBS No: 1BAD05
Activity ID: 1B07E03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	150.066.30	Dollars
Factors		326231 Dollars	0.46 adi Factor						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000 dollars							

Line Item 2CDETEDR0 - Duct Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	19.691.00	Dollars
Factors		19691 Dollars							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000 dollars							

Line Item 2CDETEEA0 - Electrical & Alarms

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	158.479.20	Dollars
Factors		240120 Dollars	0.66 adi Factor						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000 dollars							

Line Item 2CDETEEE0 - External Equipment Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -

WBS No: 1BAD05
Activity ID: 1B07E03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	22.263.08	Dollars
Factors		48398	Dollars	0.46	adi Factor				
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item 2CDETEPR0 - Pipe Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	15.431.00	Dollars
Factors		15431	Dollars						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item SYS - Contingency And Escalation

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	18.950.21	Dollars
Factors		18950.2	Dollars						
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	38.015.78	Dollars
Factors		38015.8	Dollars						

WBS No: 1BAD06 Title: Decommissioning Set 6 Module F

Activity ID: 1B07F00500 Description: IWCP Development - Module F

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEFPL0	D&D F MODULE SET 6 PLANNING & ENGINEERING	1.00	each	HC	996	996	29.002	82.009	0	111.011	13.879	124.890
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	5.456	5.456	0	5.456
Total for Activity 1B07F00500:						996	29.002	82.009	5.456	116.468	13.879	130.346

Line Item 2CDPEFPL0 - D&D F MODULE SET 6 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	56.76	Hours
Factors		1	Engineer	189.2	hours	0.3	adi Factor		

WBS No: 1BAD06
Activity ID: 1B07F00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	147.00	Hours
Factors	1 engineer		147 hours					
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	143.70	Hours
Factors	1 engineer		287.4 hours		0.5 adi. Factor			
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	402.60	Hours
Factors	4 Engineers		402.6 hours		0.25 adi. Factor			
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	165.84	Hours
Factors	2 Admin Assist.		414.6 hours		0.2 adi. Factor			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)		40 hours					
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	36.618.14	Dollars
Factors	6 planners		344.5 hours		63.27 Dollars per hour	0.28 adi. Factor		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	18307 dollars		0 adi. Factor					
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	4.518.60	Dollars
Factors	283.6 hours		53.11 \$/hr		0.3 adi. Factor			
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	15.683.80	Dollars
Factors	220 hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	15.692.71	Dollars
Factors	431 hours		72.82 \$/hr		0.5 adi. Factor			
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	4.250.27	Dollars
Factors	136 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	5.245.76	Dollars
Factors	169 hours		77.6 \$/hr		0.4 adi. Factor			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	209362 Powertool balance adj.		0 adj factor for 11.9 % reduction					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3.200.34	Dollars
Factors	3200.34 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	2.256.04	Dollars
Factors	2256.04 Dollars							

Activity ID: 1B07F02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDFCV0	Remove Chainveyors to SR	1.00	each	HC	4.405	4.405	102.281	30.742	0	133.023	48.788	181.811
2CDEDFDC0	Decontaminate Set	1.00	each	HC	2.396	2.396	54.490	28.196	0	82.686	25.992	108.677
2CDEDFDR0	Duct Removal	1.00	each	HC	3.627	3.627	84.641	32.963	0	117.604	40.374	157.978
2CDEDFEA0	Electrical & Alarms	1.00	each	HC	10.099	10.099	237.310	57.102	0	294.412	113.197	407.609
2CDEDFEE0	External Equipment Removal	1.00	each	HC	518	518	12.221	7.493	0	19.714	5.829	25.544
2CDEDFPR0	Pipe Removal	1.00	each	HC	2.314	2.314	53.736	24.658	0	78.394	25.632	104.026
2CDEDFSRO	Remove GB to Size Reduce	1.00	each	HC	1.593	1.593	36.905	27.151	0	64.056	17.604	81.660
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	57.077	57.077	0	57.077
Total for Activity 1B07F02500:						24.950	581.584	208.305	57.077	846.966	277.416	1,124.382

Line Item 2CDEDFCV0 - Remove Chainveyors to SR

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot

WBS No: 1BAD06
Activity ID: 1B07F02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
*

Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	19.00	Hours
Factors	19	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.110.00	Hours
Factors	1110	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	34.00	Hours
Factors	34	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	238.50	Hours
Factors	265	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sfty & Quality	Linear	664.25	Hours
Factors	983	Hours						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1.547.00	Hours
Factors	1547	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	222.00	Hours
Factors	222	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	53.00	Hours
Factors	53	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sfty & Quality	Linear	197.00	Hours
Factors	197	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	309.00	Hours
Factors	309	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	30.742.11	Dollars
Factors	101237	Dollars						
		0.6	adi Factor		0.50611 adi. To remv. Waste costs			

Line Item 2CDEDFDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sfty & Quality	Linear	382.50	Hours
Factors	275	Hours						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1.498.00	Hours
Factors	1498	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours						

WBS No: 1BAD06
Activity ID: 1B07F02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	55.00	Hours
Factors	55	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	300.00	Hours
Factors	300	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	28.195.80	Dollars
Factors	46993	Dollars	0.6	adi Factor				

Line Item 2CDEDFDR0 - Duct Removal

BOE Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	0.00	Hours
Factors	0 Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.278.00	Hours
Factors	1278 Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	103.00	Hours
Factors	103 Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	242.10	Hours
Factors	269 Hours		0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	523.75	Hours
Factors	847 Hours		0.61836 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	817.00	Hours
Factors	817 Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	0.00	Hours
Factors	0 Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	256.00	Hours
Factors	256 Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	21.00	Hours
Factors	21 Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	54.00	Hours
Factors	54 Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	169.00	Hours
Factors	169 Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	163.00	Hours
Factors	163 Hours								
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	32.963.00	Dollars
Factors	71605 Dollars		0.6 adi Factor		0.76724 adi. To remv. Waste costs				

Line Item 2CDEDFEA0 - Electrical & Alarms

BOE Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot

WBS No: 1BAD06
Activity ID: 1B07F02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
*

Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	297.00	Hours
Factors	297	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,782.00	Hours
Factors	1782	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	260.00	Hours
Factors	260	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	841.50	Hours
Factors	935	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	1,347.00	Hours
Factors	2500	Hours						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,606.00	Hours
Factors	3606	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	59.00	Hours
Factors	59	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	356.00	Hours
Factors	356	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	52.00	Hours
Factors	52	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	187.00	Hours
Factors	187	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	500.00	Hours
Factors	500	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	721.00	Hours
Factors	721	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	57,101.99	Dollars
Factors	245170	Dollars						
		0.47764 adi Factor		0.48763 adi. To rmv. Waste costs				

Line Item 2CDEDFEE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	0.00	Hours
Factors	0	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	141.00	Hours
Factors	141	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	2.00	Hours
Factors	2	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	54.00	Hours
Factors	60	Hours						
		0.9 adi. to allocate Waste Ops foremen						

WBS No: 1BAD06
Activity ID: 1B07F02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
*

Starts In FY *

750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	73.75	Hours
Factors	112	Hours	0.65848	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	154.00	Hours
Factors	154	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	0.00	Hours
Factors	0	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	28.00	Hours
Factors	28	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	0.00	Hours
Factors	0	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	12.00	Hours
Factors	12	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	22.00	Hours
Factors	22	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	31.00	Hours
Factors	31	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilitv Disposition	Linear	7,493.40	Dollars
Factors	12489	Dollars	0.6	adi Factor				

Line Item 2CDEDFPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,380.00	Hours
Factors	1380	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	46.00	Hours
Factors	46	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	165.60	Hours
Factors	184	Hours	0.9 adj. to allocate Waste Ops foremen						
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	345.00	Hours
Factors	276	Hours	1.25 4 to 1 adj. Factor						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	0.00	Hours
Factors	0	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	276.00	Hours
Factors	276	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	9.00	Hours
Factors	9	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	37.00	Hours
Factors	37	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	55.00	Hours
Factors	55	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	0.00	Hours
Factors	0	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	24,657.60	Dollars
Factors	41096	Dollars	0.6 adj Factor						

Starts In FY ★

BOE	<p>Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.</p> <p>Item Desc - Similar B771 and B779 Activity</p> <p>Breakdown of Historical Data:</p> <ul style="list-style-type: none"> Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	34.633.99	Dollars
	Factors 34634 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	22.443.04	Dollars
	Factors 22443.0 Dollars									

<i>Cost Risk</i>	2	<i>Schedule Risk</i>	2
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WBS No: 1BAD06
Activity ID: 1B07F03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

2CDETFEE0	External Equipment Removal	1.00	each	HC	0	0	0	13.413	0	13.413	0	13.413
2CDETFPR0	Pipe Removal	1.00	each	HC	0	0	0	14.219	0	14.219	0	14.219
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	98.402	98.402	0	98.402
Total for Activity 1B07F03500:					0	0	0	409.964	98.402	508.365	0	508.365

Line Item 2CDETFDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	140.279.30 Dollars
Factors		326231 Dollars	0.43 adi Factor				
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00 Dollars
Factors		6000 dollars					

Line Item 2CDETFDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	14.321.00 Dollars
Factors		14321 Dollars	0.63 adi Factor				
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00 Dollars
Factors		6000 dollars					

Line Item 2CDETFEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	209.731.40 Dollars
Factors		332907 Dollars	0.63 adi Factor				
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00 Dollars
Factors		6000 dollars					

Line Item 2CDETFEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779											
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WBS No: 1BAD06
Activity ID: 1B07F03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	7.412.77	Dollars
Factors		17239	Dollars		0.43		adj Factor		
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item 2CDETFPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	8.219.00	Dollars
Factors		8219	Dollars						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors		6000	dollars						

Line Item SYS - Contingency And Escalation

BOE									
Resources		Cost Element	Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	53.726.43	Dollars
Factors		53726.4	Dollars						
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	44.675.40	Dollars
Factors		44675.4	Dollars						

WBS No: 1BAD07 Title: Decommissioning Set 7 Module G

Activity ID: 1B07G00500 Description: IWCP Development - Module G

Activity ID: 1B07G00500		Description: IWCP Development - Module G						Cost Risk 2		Schedule Risk 2			
Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost	
2CDPEGPL0	D&D G MODULE SET 7 PLANNING & ENGINEERING	1.00	each	HC	1.075	1.075	31.367	89.113	0	120.479	15.038	135.517	
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	5.375	5.375	0	5.375	
Total for Activity 1B07G00500:						1.075	31.367	89.113	5.375	125.855	15.038	140.892	

Line Item 2CDPEGPL0 - D&D G MODULE SET 7 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor -								
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WBS No: 1BAD07
Activity ID: 1B07G00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	61.65	Hours
Factors	1 Engineer	205.5	hours	0.3	adi Factor			
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	159.60	Hours
Factors	1 engineer	159.6	hours					
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	156.10	Hours
Factors	1 engineer	312.2	hours	0.5	adi. Factor			
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	437.50	Hours
Factors	4 Engineers	437.5	hours	0.25	adi. Factor			
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	180.20	Hours
Factors	2 Admin Assist.	450.5	hours	0.2	adi. Factor			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)	40	hours					
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	39.785.70	Dollars
Factors	6 planners	374.3	hours	63.27	Dollars per hour	0.28	adi. Factor	
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	19890 dollars	0	adi. Factor					
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	4.910.55	Dollars
Factors	308.2 hours	53.11	\$/hr	0.3	adi. Factor			
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	17.066.83	Dollars
Factors	239.4 hours	71.29	\$/hr					
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	17.047.16	Dollars
Factors	468.2 hours	72.82	\$/hr	0.5	adi. Factor			
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	4.619.05	Dollars
Factors	147.8 hours	96.16	\$/hr	0.5	adi. Factor	0.65	nuclear safety eng.	
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	5.683.42	Dollars
Factors	183.1 hours	77.6	\$/hr	0.4	adi. Factor			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	208026 Powertool balance adi.	0	adi factor for 11.9 % reduction					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3.152.86	Dollars
Factors	3152.86 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	2.222.58	Dollars
Factors	2222.58 Dollars							

Activity ID: 1B07G02500

Description: Equipment stripout - Module G

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDGBR	Be Equipment Removal	1.00	each	HC	2.481	2.481	57.580	20.508	0	78.087	27.466	105.553
2CDEDGDC0	Decontaminate Set	1.00	each	HC	2.373	2.373	54.548	25.846	0	80.394	26.019	106.414
2CDEDGDR0	Duct Removal	1.00	each	HC	5.128	5.128	119.280	35.942	0	155.221	56.896	212.118
2CDEDGEA0	Electrical & Alarms	1.00	each	HC	11.205	11.205	263.401	59.232	0	322.633	125.642	448.275
2CDEDGEE0	External Equipment Removal	1.00	each	HC	2.654	2.654	61.507	27.303	0	88.810	29.339	118.149
2CDEDGPR0	Pipe Removal	1.00	each	HC	3.236	3.236	75.248	21.963	0	97.211	35.893	133.104
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	60.088	60.088	0	60.088
Total for Activity 1B07G02500:						27.078	631.563	190.793	60.088	882.445	301.256	1.183.700

Line Item 2CDEDGBR - Be Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated,

WBS No: 1BAD07
Activity ID: 1B07G02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	6.00	Hours
Factors	6	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	543.00	Hours
Factors	543	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemement	Linear	23.00	Hours
Factors	23	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	124.00	Hours
Factors	124	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	374.75	Hours
Factors	615	Hours	0.60935 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	956.00	Hours
Factors	956	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	1.00	Hours
Factors	1	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	109.00	Hours
Factors	109	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemement	Linear	5.00	Hours
Factors	5	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	25.00	Hours
Factors	25	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	123.00	Hours
Factors	123	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	191.00	Hours
Factors	191	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	20.507.63	Dollars
Factors	55469	Dollars	0.55 adi Factor		0.67221 adi. To remv. Waste costs			

Line Item 2CDEDGDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.498.00	Hours
Factors	1498	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	360.00	Hours
Factors	275	Hours	1.30909 4 to 1 adi. Factor					

WBS No: 1BAD07
Activity ID: 1B07G02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	300.00	Hours
Factors	300	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	55.00	Hours
Factors	55	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	25.846.15	Dollars
Factors	46993	Dollars	0.55	adi Factor				

Line Item 2CDEGDGR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	2.123.00	Hours
Factors	2123 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	245.00	Hours
Factors	245 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	349.20	Hours
Factors	388 Hours		0.9		adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	722.25	Hours
Factors	1000 Hours		0.72225		4 to 1 adi. Factor					
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	766.00	Hours
Factors	766 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	425.00	Hours
Factors	425 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	49.00	Hours
Factors	49 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	78.00	Hours
Factors	78 Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	200.00	Hours
Factors	200 Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	153.00	Hours
Factors	153 Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	35.941.74	Dollars
Factors	101712 Dollars		0.55		adi Factor		0.64249		adi. To remv. Waste costs	

Line Item 2CDEGGEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
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WBS No: 1BAD07
Activity ID: 1B07G02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	333.00	Hours
Factors	333	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.923.00	Hours
Factors	1923	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	276.00	Hours
Factors	276	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	945.00	Hours
Factors	1050	Hours		0.9 adi. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1.496.00	Hours
Factors	2760	Hours		0.54203 4 to 1 adi. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4.061.00	Hours
Factors	4061	Hours							
	750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	67.00	Hours
Factors	67	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	385.00	Hours
Factors	385	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	55.00	Hours
Factors	55	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	210.00	Hours
Factors	210	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	552.00	Hours
Factors	552	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	812.00	Hours
Factors	812	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	59.232.00	Dollars
Factors	271331	Dollars		0.43943 adi Factor		0.49678 adi. To rmv. Waste costs			

Line Item 2CDEGEE0 - External Equipment Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
	Factors 15 Hours								
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	791.00	Hours
	Factors 791 Hours								

WBS No: 1BAD07
Activity ID: 1B07G02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	22.00	Hours
Factors	22	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	68.00	Hours
Factors	68	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	408.25	Hours
Factors	803	Hours	0.50841 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	842.00	Hours
Factors	842	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	158.00	Hours
Factors	158	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	14.00	Hours
Factors	14	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	161.00	Hours
Factors	161	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	168.00	Hours
Factors	168	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	27,302.74	Dollars
Factors	67823	Dollars	0.55 adj Factor	0.73193	adj. To remv. Waste costs			

Line Item 2CDEDGPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,786.00	Hours
Factors	1786	Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management		Linear	63.00	Hours
Factors	63	Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition		Linear	237.60	Hours
Factors	264	Hours	0.9 adj. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality		Linear	482.75	Hours
Factors	420	Hours	1.14940 4 to 1 adj. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition		Linear	133.00	Hours
Factors	133	Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition		Linear	357.00	Hours
Factors	357	Hours							
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management		Linear	13.00	Hours
Factors	13	Hours							
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition		Linear	53.00	Hours
Factors	53	Hours							
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality		Linear	84.00	Hours
Factors	84	Hours							

WBS No: 1BAD07
Activity ID: 1B07G02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	21.963.16	Dollars
Factors	58115	Dollars	0.55	adi Factor	0.68714	adi. To remv. Waste costs		

Line Item SYS - Contingency And Escalation

BOE

Resources

CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	36.461.1	Dollars
Factors	36461.1	Dollars						
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	23.627.04	Dollars
Factors	23627.0	Dollars						

Activity ID: 1B07G03500

Description: IWCP Execution Trades - Module G

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETGGBR	Be Equipment Removal	1.00	each	HC	0	0	0	12.104	0	12.104	0	12.104
2CDETGDC0	Decontaminate Set	1.00	each	HC	0	0	0	126.705	0	126.705	0	126.705
2CDETGDR0	Duct Removal	1.00	each	HC	0	0	0	25.542	0	25.542	0	25.542
2CDETGEA0	Electrical & Alarms	1.00	each	HC	0	0	0	216.341	0	216.341	0	216.341
2CDETGEE0	External Equipment Removal	1.00	each	HC	0	0	0	86.917	0	86.917	0	86.917
2CDETGPR0	Pipe Removal	1.00	each	HC	0	0	0	17.623	0	17.623	0	17.623
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	116.468	116.468	0	116.468
Total for Activity 1B07G03500:						0	0	485.232	116.468	601.701	0	601.701

Line Item 2CDETGGBR - Be Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	12.104.00	Dollars
Factors	12104	Dollars						

Line Item 2CDETGDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	120.705.50	Dollars
Factors	326231	Dollars	0.37	adi Factor				
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors	6000	dollars						

WBS No: 1BAD07
Activity ID: 1B07G03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item 2CDETGDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	19,542.00	Dollars
Factors 19542 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars
Factors 6000 dollars								

Line Item 2CDETGEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	210,340.80	Dollars
Factors 369019 Dollars 0.57 adi Factor								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars
Factors 6000 dollars								

Line Item 2CDETGEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	80,917.00	Dollars
Factors 80917 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6,000.00	Dollars
Factors 6000 dollars								

Line Item 2CDETGPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data:					
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WBS No: 1BAD07
Activity ID: 1B07G03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	11.623.00	Dollars
Factors 11623 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.000.00	Dollars
Factors 6000 dollars								

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	63.590.53	Dollars
Factors 63590.5 Dollars								
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	52.877.75	Dollars
Factors 52877.8 Dollars								

WBS No: 1BAD08 Title: Decommissioning Set 8 Module H

Activity ID: 1B07H00500 Description: IWCP Development - Module H

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEHPLO	D&D H MODULE SET 8 PLANNING & ENGINEERING	1.00	each	HC	877	877	25,455	71,413	0	96,868	12,025	108,893
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	5,603	5,603	0	5,603
Total for Activity 1B07H00500:						877	25,455	71,413	5,603	102,471	12,025	114,495

Line Item 2CDPEHPLO - D&D H MODULE SET 8 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	49.41	Hours
Factors 1 Engineer 164.7 hours 0.3 adi. Factor								
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	127.80	Hours
Factors 1 engineer 127.8 hours								
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	125.10	Hours
Factors 1 engineer 250.2 hours 0.5 adi. Factor								
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	350.50	Hours
Factors 4 Engineers 350.5 hours 0.25 adi. Factor								
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	144.40	Hours
Factors 2 Admin Assist. 361 hours 0.2 adi. Factor								
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors 2 D&D Workers (walkdowns) 40 hours								
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	31.888.08	Dollars
Factors 6 planners 300 hours 63.27 Dollars per hour 0.28 adi. Factor								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors 15942 dollars 0 adi. Factor								

WBS No: 1BAD08
Activity ID: 1B07H00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3,937.04	Dollars
Factors	247.1 hours		53.11 \$/hr		0.3 adi. Factor			
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	13,666.29	Dollars
Factors	191.7 hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	13,664.67	Dollars
Factors	375.3 hours		72.82 \$/hr		0.5 adi. Factor			
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3,700.24	Dollars
Factors	118.4 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	4,556.67	Dollars
Factors	146.8 hours		77.6 \$/hr		0.4 adi. Factor			

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3,348.58	Dollars
Factors	3348.58 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	2,253.93	Dollars
Factors	2253.93 Dollars							

Activity ID: 1B07H02500 Description: Equipment stripout - Module H

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDHAC0	Remove Autoclave 135	1.00	each	HC	3.174	3.174	74.086	27.648	0	101.734	35.339	137.073
2CDEDHDC0	Decontaminate Set	1.00	each	HC	2.373	2.373	54.548	21.955	0	76.503	26.019	102.523
2CDEDHDR0	Duct Removal	1.00	each	HC	1.116	1.116	25.964	16.128	0	42.092	12.385	54.476
2CDEDHEA0	Electrical & Alarms	1.00	each	HC	9.670	9.670	226.615	61.730	0	288.345	108.095	396.441
2CDEDHEE0	External Equipment Removal	1.00	each	HC	2.028	2.028	46.956	24.172	0	71.128	22.398	93.526
2CDEDHPR0	Pipe Removal	1.00	each	HC	4.034	4.034	93.802	29.182	0	122.984	44.743	167.727
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	50.898	50.898	0	50.898
Total for Activity 1B07H02500:						22.396	521.971	180.815	50.898	753.685	248.980	1,002.665

Line Item 2CDEDHAC0 - Remove Autoclave 135

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	503.00	Hours
Factors	503 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP. SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	50.00	Hours
Factors	50 Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	205.20	Hours
Factors	228 Hours		0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	462.25	Hours
Factors	818 Hours		0.5651 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,346.00	Hours
Factors	1346 Hours							

WBS No: 1BAD08
Activity ID: 1B07H02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	101.00	Hours
Factors	101	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	10.00	Hours
Factors	10	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	46.00	Hours
Factors	46	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	164.00	Hours
Factors	164	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	269.00	Hours
Factors	269	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	27,648.16	Dollars
Factors	70071	Dollars	0.68 adi. Factor	0.58026	adi. To remv. Waste costs			

Line Item 2CDEDHDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	1,498.00	Hours
Factors	1498	Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	118.00	Hours
Factors	118	Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	360.00	Hours
Factors	275	Hours	1.30909 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	32.00	Hours
Factors	32	Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition		Linear	300.00	Hours
Factors	300	Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition		Linear	4.00	Hours
Factors	4	Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality		Linear	55.00	Hours
Factors	55	Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition		Linear	6.00	Hours
Factors	6	Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition		Linear	21,955.16	Dollars
Factors	46993	Dollars	0.68	adi. Factor		0.68706	adi. To remv. Waste costs				

Line Item 2CDEDHDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD08
Activity ID: 1B07H02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	540.00	Hours
Factors	540	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	41.00	Hours
Factors	41	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	90.90	Hours
Factors	101	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	157.00	Hours
Factors	133	Hours	1.18045 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	88.00	Hours
Factors	88	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	108.00	Hours
Factors	108	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	20.00	Hours
Factors	20	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	27.00	Hours
Factors	27	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	18.00	Hours
Factors	18	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilityv Disposition	Linear	16,127.56	Dollars
Factors	23717	Dollars	0.68 adi. Factor					

Line Item 2CDEDHEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	481.00	Hours
Factors	481	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	1,590.00	Hours
Factors	1590	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	290.00	Hours
Factors	290	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	789.30	Hours
Factors	877	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1,253.25	Hours
Factors	2055	Hours	0.60985 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	3,432.00	Hours
Factors	3432	Hours						

WBS No: 1BAD08
Activity ID: 1B07H02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	96.00	Hours
Factors	96	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	318.00	Hours
Factors	318	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	58.00	Hours
Factors	58	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	175.00	Hours
Factors	175	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	411.00	Hours
Factors	411	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	686.00	Hours
Factors	686	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	61.730.22	Dollars
Factors	223133	Dollars	0.54555 adi. Factor		0.50711 adi. To remv. Waste costs			

Line Item 2CDEDH00 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	466.00	Hours
Factors	466 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	12.00	Hours
Factors	12 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	76.00	Hours
Factors	76 Hours									
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	310.50	Hours
Factors	524 Hours		0.59256 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	776.00	Hours
Factors	776 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	93.00	Hours
Factors	93 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	2.00	Hours
Factors	2 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	15.00	Hours
Factors	15 Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	105.00	Hours
Factors	105 Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	155.00	Hours
Factors	155 Hours									

WBS No: 1BAD08
Activity ID: 1B07H02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	24.172.03	Dollars
Factors	50253 Dollars	0.68	adi. Factor	0.70736	adi. To remv. Waste costs			

Line Item 2CDEDHPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	2.264.00	Hours
Factors	2264 Hours				
750 STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	78.00	Hours
Factors	78 Hours				
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	295.20	Hours
Factors	328 Hours	0.9 adi. to allocate Waste Ops foremen			
750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Env Envir. Sftv & Quality	Linear	599.25	Hours
Factors	516 Hours	1.16134 4 to 1 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	133.00	Hours
Factors	133 Hours				
751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	453.00	Hours
Factors	453 Hours				
751 OVERTIME BASE & PRE.	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Management	Linear	16.00	Hours
Factors	16 Hours				
751 OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	66.00	Hours
Factors	66 Hours				
751 OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Env Envir. Sftv & Quality	Linear	103.00	Hours
Factors	103 Hours				
751 OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	27.00	Hours
Factors	27 Hours				
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	29.182.21	Dollars
Factors	72327 Dollars	0.68 adi. Factor	0.59335	adi. To remv. Waste costs	

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	30.884.77	Dollars
Factors	30884.8 Dollars				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	20.013.52	Dollars
Factors	20013.5 Dollars				

Activity ID: 1B07H03500

Description: IWCP Execution Trades - Module H

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETHAC0	Remove Autoclave 135	1.00	each	HC	0	0	0	59.181	0	59.181	0	59.181
2CDETHDC0	Decontaminate Set	1.00	each	HC	0	0	0	135.492	0	135.492	0	135.492
2CDETHDR0	Duct Removal	1.00	each	HC	0	0	0	8.943	0	8.943	0	8.943
2CDETHEA0	Electrical & Alarms	1.00	each	HC	0	0	0	125.995	0	125.995	0	125.995
2CDETHEE0	External Equipment Removal	1.00	each	HC	0	0	0	59.181	0	59.181	0	59.181
2CDETHPR0	Pipe Removal	1.00	each	HC	0	0	0	19.465	0	19.465	0	19.465
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	97.992	97.992	0	97.992

WBS No: 1BAD08
Activity ID: 1B07H03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Total for Activity 1B07H03500:

0	0	408,258	97.992	506,250	0	506,250
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Line Item 2CDETHAC0 - Remove Autoclave 135

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	54,181.00	Dollars
Factors 54181 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	5,000.00	Dollars
Factors 5000 dollars								

Line Item 2CDETHDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	130,492.40	Dollars
Factors 326231 Dollars 0.4 adj Factor								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	5,000.00	Dollars
Factors 5000 dollars								

Line Item 2CDETHDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	3,943.00	Dollars
Factors 3943 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	5,000.00	Dollars
Factors 5000 dollars								

Line Item 2CDETHEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity					
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WBS No: 1BAD08
Activity ID: 1B07H03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	120.995.20	Dollars
Factors		302488 Dollars	0.4 adi Factor						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	5.000.00	Dollars
Factors		5000 dollars							

Line Item 2CDETHEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	54.181.00	Dollars
Factors		54181 Dollars							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	5.000.00	Dollars
Factors		5000 dollars							

Line Item 2CDETHPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	14.465.00	Dollars
Factors		14465 Dollars							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	5.000.00	Dollars
Factors		5000 dollars							

Line Item SYS - Contingency And Escalation

BOE									
Resources		Cost Element	Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	53.502.86	Dollars
Factors		53502.9 Dollars							
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	44.489.50	Dollars
Factors		44489.5 Dollars							

WBS No: 1BAD09 Title: Decommissioning Set 9 Module J
Activity ID: 1B07J00500 Description: IWCP Development - Module J

Cost Risk 2 Schedule Risk 2

WBS No: 1BAD09
Activity ID: 1B07J00500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEJPL0	D&D J MODULE SET 9 PLANNING & ENGINEERING	1.00	each	HC	2,549	2,549	75,404	263,439	0	338,843	25,549	364,391
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	69,879	69,879	0	69,879
Total for Activity 1B07J00500:						2,549	75,404	263,439	69,879	408,721	25,549	434,270

Line Item 2CDPEJPL0 - D&D J MODULE SET 9 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	153.00	Hours
Factors 1 Engineer	510 hours	0.3 adi Factor			
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	395.70	Hours
Factors 1 engineer	395.7 hours				
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	387.40	Hours
Factors 1 engineer	774.8 hours	0.5 adi. Factor			
750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	1,085.70	Hours
Factors 4 Engineers	1085.7 hours	0.25 adi. Factor			
750 STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	447.20	Hours
Factors 2 Admin Assist.	1118 hours	0.2 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors 2 D&D Workers (walkdowns)	40 hours				
A52 TENERA	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	84,631.40	Dollars
Factors 1162.2 hours	72.82 \$/hr				
A57 LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	98,736.13	Dollars
Factors 6 planners	928.9 hours	63.27 Dollars per hour	0.28 adi. Factor		
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 49366 dollars	0 adi. Factor				
A5H SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	12,188.75	Dollars
Factors 765 hours	53.11 \$/hr	0.3 adi. Factor			
A5H SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	42,317.74	Dollars
Factors 593.6 hours	71.29 \$/hr				
A5H SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	11,460.11	Dollars
Factors 366.7 hours	96.16 \$/hr	0.5 adi. Factor	0.65 nuclear safety eno.		
A5H SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	14,104.58	Dollars
Factors 454.4 hours	77.6 \$/hr	0.4 adi. Factor			
A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 363121 Powertool balance adi.	0 adi factor for 11.9 % reduction				

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	45,301.13	Dollars
Factors 45301.1 Dollars					
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	24,577.50	Dollars
Factors 24577.5 Dollars					

Activity ID: 1B07J02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDJCV0	Remove Chainveyors to SR	1.00	each	HC	22.340	22.340	571.204	302.026	0	873.230	191.720	1.064.950
2CDEDJDC0	Decontaminate Set	1.00	each	HC	1.853	1.853	42.308	29.850	0	72.158	14.200	86.358
2CDEDJDR0	Duct Removal	1.00	each	HC	3.949	3.949	91.864	65.450	0	157.313	30.833	188.147
2CDEDJEA0	Electrical & Alarms	1.00	each	HC	10.822	10.822	253.537	116.933	0	370.470	85.098	455.568
2CDEDJEE0	External Equipment Removal	1.00	each	HC	1.866	1.866	43.416	37.331	0	80.747	14.572	95.319
2CDEDJIE0	GB Internal Equipment Removal	1.00	each	HC	1.148	1.148	26.921	27.298	0	54.219	9.036	63.255
2CDEDJIP0	Reduce GB In Place	1.00	each	HC	16.563	16.563	387.761	253.108	0	640.869	130.149	771.018
2CDEDJPR0	Pipe Removal	1.00	each	HC	4.583	4.583	106.528	68.151	0	174.679	35.755	210.434
2CDEDJSR0	Remove GB to Size Reduce	1.00	each	HC	4.772	4.772	137.391	75.207	0	212.598	46.114	258.712
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	768.029	768.029	0	768.029
Total for Activity 1B07J02500:						67.896	1.660.930	975.354	768.029	3.404.313	557.477	3.961.790

Line Item 2CDEDJCV0 - Remove Chainveyors to SR

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	62.00	Hours
Factors	62	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3.836.00	Hours
Factors	3836	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	139.00	Hours
Factors	139	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	955.80	Hours
Factors	1062	Hours		0.9 adi. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	2.514.25	Hours
Factors	3667	Hours		0.68564 4 to 1 adi. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	6.221.00	Hours
Factors	6221	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	12.00	Hours
Factors	12	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	767.00	Hours
Factors	767	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	28.00	Hours
Factors	28	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KD10H	776 Complex Steelworkers	Linear	864.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	16	GB equivalents	
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	432.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	16	GB equivalents	
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	212.00	Hours
Factors	212	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	733.00	Hours
Factors	733	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	864.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	16	GB equivalents	

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,244.00	Hours
Factors	1244	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	3,456.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	16	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	30,000.00	Dollars
Factors	625	dollars/shift	3	shifts			16	GB equivalents
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	186,741.00	Dollars
Factors	465953	Dollars	0.83	adi Factor	0.48286	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	85,285.00	Dollars
Factors	85285	Dollars						

Line Item 2CDEDJDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	291.25	Hours
Factors	212	Hours	1.37382	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,133.00	Hours
Factors	1133	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	42.00	Hours
Factors	42	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	227.00	Hours
Factors	227	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	29,850.12	Dollars
Factors	35964	Dollars	0.83	adi Factor				

Line Item 2CDEDJDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,661.00	Hours
Factors	1661	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	168.00	Hours
Factors	168	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	271.80	Hours
Factors	302	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	559.75	Hours
Factors	752	Hours	0.74435	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	578.00	Hours
Factors	578	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	332.00	Hours
Factors	332	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	34.00	Hours
Factors	34	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	60.00	Hours
Factors	60	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	150.00	Hours
Factors	150	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	116.00	Hours
Factors	116	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	65,449.65	Dollars
Factors	78855	Dollars	0.83	adj Factor				

Line Item 2CDEDEJEA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	609.00	Hours
Factors	609	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1,723.00	Hours
Factors	1723	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	330.00	Hours
Factors	330	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	882.00	Hours
Factors	980	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,393.75	Hours
Factors	2214	Hours	0.62952 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,852.00	Hours
Factors	3852	Hours							
750	STRAIGHT TIME BASE		T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours							
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	122.00	Hours
Factors	122	Hours							

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	345.00	Hours
Factors	345	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	66.00	Hours
Factors	66	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	196.00	Hours
Factors	196	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	443.00	Hours
Factors	443	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	770.00	Hours
Factors	770	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	116.932.80	Dollars
Factors	245702	Dollars	0.68755	adi Factor	0.69219	adi. To remv. Waste costs		

Line Item 2CDEDJEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15 Hours									
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	271.00	Hours
Factors	271 Hours									
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	95.00	Hours
Factors	95 Hours									
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	150.30	Hours
Factors	167 Hours			0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	254.75	Hours
Factors	363 Hours			0.70179 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	748.00	Hours
Factors	748 Hours									
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3 Hours									
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	54.00	Hours
Factors	54 Hours									
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	19.00	Hours
Factors	19 Hours									
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	33.00	Hours
Factors	33 Hours									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Ena Envir. Sftv & Quality	Linear	73.00	Hours
Factors	73 Hours									
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	150.00	Hours
Factors	150 Hours									
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	37,330.91	Dollars
Factors	44977 Dollars			0.83 adi Factor						

Line Item 2CDEDJIE0 - GB Internal Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
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WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill	Department		Curve	Quantity	Units
750		STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	15.00	Hours
Factors		15	Hours					
750		STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	321.00	Hours
Factors		321	Hours					
750		STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemet	Linear	15.00	Hours
Factors		15	Hours					
750		STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facilityv Disposition	Linear	78.30	Hours
Factors		87	Hours	0.9 adi. to allocate Waste Ops foremen				
750		STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	164.50	Hours
Factors		316	Hours	0.52057 4 to 1 adi. Factor				
750		STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facilityv Disposition	Linear	337.00	Hours
Factors		337	Hours					
751		OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	3.00	Hours
Factors		3	Hours					
751		OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	64.00	Hours
Factors		64	Hours					
751		OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemet	Linear	3.00	Hours
Factors		3	Hours					
751		OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facilityv Disposition	Linear	17.00	Hours
Factors		17	Hours					
751		OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	63.00	Hours
Factors		63	Hours					
751		OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facilityv Disposition	Linear	67.00	Hours
Factors		67	Hours					
A5C		SUPPLIES	0000	NONE	KB30S B707 Facilityv Disposition	Linear	22.648.21	Dollars
Factors		27287	Dollars	0.83 adi Factor				
A5H		SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S B707 Facilityv Disposition	Linear	4.650.00	Dollars
Factors		4650	Dollars					

Line Item 2CDEDJIP0 - Reduce GB In Place

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources		Cost Element	Skill	Department		Curve	Quantity	Units
750		STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	111.00	Hours
Factors		111	Hours					
750		STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	3,789.00	Hours
Factors		3789	Hours					

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
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							Starts In FY	*
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	269.00	Hours
Factors	269	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,249.20	Hours
Factors	1388	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	2,376.75	Hours
Factors	3972	Hours	0.59838	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	5,718.00	Hours
Factors	5718	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	22.00	Hours
Factors	22	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	758.00	Hours
Factors	758	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	54.00	Hours
Factors	54	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	278.00	Hours
Factors	278	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	794.00	Hours
Factors	794	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,144.00	Hours
Factors	1144	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	169,095.10	Dollars
Factors	444693	Dollars	0.83	adi Factor	0.45813	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	84,013.00	Dollars
Factors	84013	Dollars						

Line Item 2CDEDJPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,592.00	Hours
Factors	2592	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	89.00	Hours
Factors	89	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	334.80	Hours
Factors	372	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	681.25	Hours
Factors	581	Hours	1.17255	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	518.00	Hours
Factors	518	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	18.00	Hours
Factors	18	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	74.00	Hours
Factors	74	Hours						

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Starts In FY *

751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	116.00	Hours
Factors	116	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	68,151.30	Dollars
Factors	82110	Dollars	0.83	adi Factor				

Line Item 2CDEDJSR0 - Remove GB to Size Reduce

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	19.00	Hours
Factors	19	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	510.00	Hours
Factors	510	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	21.00	Hours
Factors	21	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	163.80	Hours
Factors	182	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	282.25	Hours
Factors	396	Hours	0.71275	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	619.00	Hours
Factors	619	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	102.00	Hours
Factors	102	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemet	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers	Linear	432.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	8	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Buildina 776 Proiect	Linear	216.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	8	GB equivalents
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	36.00	Hours
Factors	36	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	79.00	Hours
Factors	79	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	432.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	8	GB equivalents
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	124.00	Hours
Factors	124	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1,728.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	8	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Buildina 776 Proiect	Linear	15,000.00	Dollars
Factors	625	dollars/shift	3	shifts	8	GB equivalents		

WBS No: 1BAD09
Activity ID: 1B07J02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	46,823.62	Dollars
Factors	56414	Dollars	0.83	adi Factor				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	13,383.00	Dollars
Factors	13383	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	514.378.60	Dollars
	Factors 514379 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	253.650.40	Dollars
	Factors 253650 Dollars								

Activity ID: 1B07J03500 Description: IWCP Execution Trades - Module J

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETJDC0	Decontaminate Set	1.00	each	HC	0	0	0	137,401	0	137,401	0	137,401
2CDETJDR0	Duct Removal	1.00	each	HC	0	0	0	21,971	0	21,971	0	21,971
2CDETJEA0	Electrical & Alarms	1.00	each	HC	0	0	0	183,830	0	183,830	0	183,830
2CDETJEE0	External Equipment Removal	1.00	each	HC	0	0	0	30,494	0	30,494	0	30,494
2CDETJPR0	Pipe Removal	1.00	each	HC	0	0	0	23,422	0	23,422	0	23,422
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	57,137	57,137	0	57,137
Total for Activity 1B07J03500:						0	0	397,118	57,137	454,255	0	454,255

Line Item 2CDETJDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	130,401.20	Dollars
	Factors	246040	Dollars	0.53 adi Factor						
	A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
	Factors	7000	dollars							

Line Item 2CDETJDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	14,971.00	Dollars
	Factors	14971	Dollars						
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
	Factors	7000	dollars						

WBS No: 1BAD09
Activity ID: 1B07J03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item 2CDETJEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	176.829.70	Dollars
Factors 333641 Dollars		0.53 adi Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7.000.00	Dollars
Factors 7000 dollars								

Line Item 2CDETJEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	23.493.84	Dollars
Factors 44328 Dollars		0.53 adi Factor						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7.000.00	Dollars
Factors 7000 dollars								

Line Item 2CDETJPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	16.422.00	Dollars
Factors 16422 Dollars								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7.000.00	Dollars
Factors 7000 dollars								

Line Item SYS - Contingency And Escalation

BOE									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	19.007.03	Dollars
	Factors 19007.0 Dollars								

WBS No: 1BAD09
Activity ID: 1B07J03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	38,129.77	Dollars
Factors 38129.8 Dollars								

WBS No: 1BAD10 Title: Decommissioning Set 10 Module K
Activity ID: 1B07K00500 Description: IWCP Development - Module K

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEKPL0	D&D K MODULE SET 10 PLANNING & ENGINEERING	1.00	each	HC	2.859	2.859	84.662	248.871	0	333.532	29.812	363.344
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	64.897	64.897	0	64.897
Total for Activity 1B07K00500:						2.859	84.662	248.871	64.897	398.429	29.812	428.241

Line Item 2CDPEKPL0 - D&D K MODULE SET 10 PLANNING & ENGINEERING

BOE Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	172.20	Hours
Factors 1 Engineer	574 hours	0.3 adi. Factor			
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	445.40	Hours
Factors 1 engineer	445.4 hours				
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	436.00	Hours
Factors 1 engineer	872 hours	0.5 adi. Factor			
750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	1,222.00	Hours
Factors 4 Engineers	1222 hours	0.25 adi. Factor			
750 STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	503.20	Hours
Factors 2 Admin Assist.	1258 hours	0.2 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors 2 D&D Workers (walkdowns)	40 hours				
A57 LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	111,130.00	Dollars
Factors 6 planners	1045.5 hours	63.27 Dollars per hour	0.28 adi. Factor		
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 55563 dollars	0 adi. Factor				
A5H SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	13,719.91	Dollars
Factors 861.1 hours	53.11 \$/hr	0.3 adi. Factor			
A5H SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	47,621.72	Dollars
Factors 668 hours	71.29 \$/hr				
A5H SUBCONTRACTED SRVS	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	47,624.28	Dollars
Factors 1308 hours	72.82 \$/hr	0.5 adi. Factor			
A5H SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	12,900.83	Dollars
Factors 412.8 hours	96.16 \$/hr	0.5 adi. Factor	0.65 nuclear safety eng.		
A5H SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	15,873.86	Dollars
Factors 511.4 hours	77.6 \$/hr	0.4 adi. Factor			
A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 442711 Powertool balance adi.	0 adi factor for 11.9 % reduction				

Line Item SYS - Contingency And Escalation

BOE					
Resources	Cost Element	Skill	Department	Curve	Quantity Units

WBS No: 1BAD10
Activity ID: 1B07K02500

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CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	42,095.07	Dollars
<i>Factors</i> 42095.1 Dollars								
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	22,801.71	Dollars
<i>Factors</i> 22801.7 Dollars								

Activity ID: 1B07K02500 Description: Glovebox and equipment stripout - Modu

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDKCV0	Remove Chainveyors to SR	1.00	each	HC	25.218	25.218	655.131	282.382	0	937.513	213.670	1,151.183
2CDEDKDC0	Decontaminate Set	1.00	each	HC	1.252	1.252	28.804	17.102	0	45.906	9.394	55.301
2CDEDKDR0	Duct Removal	1.00	each	HC	2.524	2.524	58.690	36.811	0	95.501	19.142	114.642
2CDEDKEA0	Electrical & Alarms	1.00	each	HC	10.143	10.143	237.762	110.136	0	347.898	77.546	425.444
2CDEDKEE0	External Equipment Removal	1.00	each	HC	508	508	11.886	11.407	0	23.292	3.876	27.169
2CDEDKIE0	GB Internal Equipment Removal	1.00	each	HC	3.048	3.048	71.453	61.141	0	132.594	23.304	155.898
2CDEDKIP0	Reduce GB In Place	1.00	each	HC	9.815	9.815	231.855	220.062	0	451.917	75.619	527.536
2CDEDKPR0	Pipe Removal	1.00	each	HC	4.422	4.422	102.798	57.065	0	159.863	33.527	193.390
2CDEDKSR0	Remove GB to Size Reduce	1.00	each	HC	16.990	16.990	419.754	290.072	0	709.826	136.902	846.727
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	789.025	789.025	0	789.025
Total for Activity 1B07K02500:						73.921	1,818.133	1,086.177	789.025	3,693.335	592.980	4,286.315

Line Item 2CDEDKCV0 - Remove Chainveyors to SR

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear 53.00 Hours
<i>Factors</i> 53 Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear 4,184.00 Hours
<i>Factors</i> 4184 Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear 156.00 Hours
<i>Factors</i> 156 Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear 1,092.60 Hours
<i>Factors</i> 1214 Hours 0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear 2,659.75 Hours
<i>Factors</i> 3956 Hours 0.67233 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear 6,491.00 Hours
<i>Factors</i> 6491 Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear 11.00 Hours
<i>Factors</i> 11 Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear 837.00 Hours
<i>Factors</i> 837 Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear 31.00 Hours
<i>Factors</i> 31 Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KD10H	776 Complex Steelworkers	Linear 1,134.00 Hours
<i>Factors</i> 2 waste inspectors 3 shifts 9 hours/shift 21 GB equivalents						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear 567.00 Hours
<i>Factors</i> 1 foreman 3 shifts 9 hours/shift 21 GB equivalents						

WBS No: 1BAD10
Activity ID: 1B07K02500

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751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	243.00	Hours
Factors	243	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	791.00	Hours
Factors	791	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	1,134.00	Hours
Factors	2	RCTs	3 shifts	9 hours/shift	21	GB equivalents		
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,298.00	Hours
Factors	1298	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	4,536.00	Hours
Factors	8	D&D workers	3 shifts	9 hours/shift	21	GB equivalents		
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	39,375.00	Dollars
Factors	625	dollars/shift	3 shifts		21	GB equivalents		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	152,017.00	Dollars
Factors	495857	Dollars	0.64942 adi Factor	0.47208 adi. To remv. Waste costs				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	90,990.00	Dollars
Factors	90990	Dollars						

Line Item 2CDEDKDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	118.00	Hours
Factors	118	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	190.00	Hours
Factors	141	Hours	1.34752 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	728.00	Hours
Factors	728	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	28.00	Hours
Factors	28	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	146.00	Hours
Factors	146	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	17,102.16	Dollars
Factors	23753	Dollars	0.72 adi Factor					

Line Item 2CDEDKDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot
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WBS No: 1BAD10
Activity ID: 1B07K02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.087.00	Hours
Factors	1087	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	119.00	Hours
Factors	119	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	180.90	Hours
Factors	201	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	354.25	Hours
Factors	439	Hours						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	330.00	Hours
Factors	330	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	217.00	Hours
Factors	217	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	24.00	Hours
Factors	24	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	40.00	Hours
Factors	40	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	88.00	Hours
Factors	88	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	66.00	Hours
Factors	66	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	36.810.72	Dollars
Factors	51126	Dollars						
		0.72	adi Factor					

Line Item 2CDEDEKA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	543.00	Hours
Factors	543	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.627.00	Hours
Factors	1627	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	296.00	Hours
Factors	296	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	836.10	Hours
Factors	929	Hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Enq Envir. Sftv & Quality	Linear	1.310.50	Hours
Factors	2113	Hours						
		0.62021	4 to 1 adi. Factor					

WBS No: 1BAD10
Activity ID: 1B07K02500

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750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,615.00	Hours
Factors	3615	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	109.00	Hours
Factors	109	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	325.00	Hours
Factors	325	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	59.00	Hours
Factors	59	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	186.00	Hours
Factors	186	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	423.00	Hours
Factors	423	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	723.00	Hours
Factors	723	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	110.135.80	Dollars
Factors	232133	Dollars	0.72	adi Factor	0.65896	adi. To remv. Waste costs		

Line Item 2CDEDKEE0 - External Equipment Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	149.00	Hours
Factors	149	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	3.00	Hours
Factors	3	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	29.00	Hours
Factors	29	Hours							
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	73.25	Hours
Factors	130	Hours	0.56346 4 to 1 adj. Factor						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	144.00	Hours
Factors	144	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	30.00	Hours
Factors	30	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	1.00	Hours
Factors	1	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	26.00	Hours
Factors	26	Hours							

WBS No: 1BAD10
Activity ID: 1B07K02500

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751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	29.00	Hours
Factors	29	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	11.406.96	Dollars
Factors	15843	Dollars	0.72	adi Factor				

Line Item 2CDEDKIE0 - GB Internal Equipment Removal

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	690.00	Hours
Factors	690	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	66.00	Hours
Factors	66	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	210.60	Hours
Factors	234	Hours	0.9 adi. to allocate Waste Ops foremen							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	434.75	Hours
Factors	858	Hours	0.50670 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	1,049.00	Hours
Factors	1049	Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	138.00	Hours
Factors	138	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	13.00	Hours
Factors	13	Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	47.00	Hours
Factors	47	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	172.00	Hours
Factors	172	Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	210.00	Hours
Factors	210	Hours								
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	48,633.84	Dollars
Factors	67547	Dollars	0.72 adi Factor							
A5H	SUBCONTRACTED SRVS		E130	OTHER ENGINEERS		KB30S	B707 Facility Disposition	Linear	12,507.00	Dollars
Factors	12507	Dollars								

Line Item 2CDEDKIP0 - Reduce GB In Place

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -

WBS No: 1BAD10
Activity ID: 1B07K02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	1.062.00	Hours
Factors	1062	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	358.00	Hours
Factors	358	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	712.80	Hours
Factors	792	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	1.334.00	Hours
Factors	3794	Hours	0.35161 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4.274.00	Hours
Factors	4274	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	212.00	Hours
Factors	212	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	72.00	Hours
Factors	72	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	158.00	Hours
Factors	158	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	759.00	Hours
Factors	759	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	855.00	Hours
Factors	855	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	161.964.00	Dollars
Factors	363839	Dollars	0.72 adi Factor 0.61827 adi. To remv. Waste costs					
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	58.098.00	Dollars
Factors	58098	Dollars						

Line Item 2CDEDKPR0 - Pipe Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2.496.00	Hours
Factors	2496	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	86.00	Hours
Factors	86	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	323.10	Hours
Factors	359	Hours	0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	657.25	Hours
Factors	562	Hours	1.16948 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	133.00	Hours
Factors	133	Hours						

WBS No: 1BAD10
Activity ID: 1B07K02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	499.00	Hours
Factors	499	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	17.00	Hours
Factors	17	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	72.00	Hours
Factors	72	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	112.00	Hours
Factors	112	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	27.00	Hours
Factors	27	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	57,065.04	Dollars
Factors	79257	Dollars	0.72	adi Factor				

Line Item 2CDEDKSR0 - Remove GB to Size Reduce

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	69.00	Hours
Factors	69	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3,624.00	Hours
Factors	3624	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	222.00	Hours
Factors	222	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,085.40	Hours
Factors	1206	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	2,103.50	Hours
Factors	3285	Hours	0.64034 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	4,790.00	Hours
Factors	4790	Hours							
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	14.00	Hours
Factors	14	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	725.00	Hours
Factors	725	Hours							
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	44.00	Hours
Factors	44	Hours							
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KD10H	776 Complex Steelworkers	Linear	378.00	Hours
Factors	2	waste inspectors	3	shifts	9	hours/shift	7	GB equivalents	
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	189.00	Hours
Factors	1	foreman	3	shifts	9	hours/shift	7	GB equivalents	
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	241.00	Hours
Factors	241	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	657.00	Hours
Factors	657	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	378.00	Hours
Factors	2	RCTs	3	shifts	9	hours/shift	7	GB equivalents	

WBS No: 1BAD10
Activity ID: 1B07K02500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	958.00	Hours
Factors	958	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1,512.00	Hours
Factors	8	D&D workers	3	shifts	9	hours/shift	7	GB equivalents
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	13,125.00	Dollars
Factors	625	dollars/shift	3	shifts			7	GB equivalents
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	203,490.70	Dollars
Factors	393737	Dollars	0.72	adi Factor	0.71780	adi. To remv. Waste costs		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	73,456.00	Dollars
Factors	73456	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	502,927.40	Dollars
Factors	502927 Dollars								
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	286,097.60	Dollars
Factors	286098 Dollars								

Activity ID: 1B07K03500

Description: IWCP Execution Trades - Module K

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETKDC0	Decontaminate Set	1.00	each	HC	0	0	0	113,361	0	113,361	0	113,361
2CDETKDR0	Duct Removal	1.00	each	HC	0	0	0	16,425	0	16,425	0	16,425
2CDETKEA0	Electrical & Alarms	1.00	each	HC	0	0	0	221,139	0	221,139	0	221,139
2CDETKEE0	External Equipment Removal	1.00	each	HC	0	0	0	18,117	0	18,117	0	18,117
2CDETKPR0	Pipe Removal	1.00	each	HC	0	0	0	22,851	0	22,851	0	22,851
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	56,385	56,385	0	56,385
Total for Activity 1B07K03500:						0	0	391,893	56,385	448,278	0	448,278

Line Item 2CDETKDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	106,360.80	Dollars
Factors	156413 Dollars		0.68 adi Factor						
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
Factors	7000 dollars								

Line Item 2CDETKDR0 - Duct Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -

WBS No: 1BAD10
Activity ID: 1B07K03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	9,425.00	Dollars
Factors 9425 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
Factors 7000 dollars									

Line Item 2CDETKEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	214,139.50	Dollars
Factors 314911 Dollars 0.68 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
Factors 7000 dollars									

Line Item 2CDETKEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	11,116.64	Dollars
Factors 16348 Dollars 0.68 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
Factors 7000 dollars									

Line Item 2CDETKPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	15,851.00	Dollars
Factors 15851 Dollars									

WBS No: 1BAD10
Activity ID: 1B07K03500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,000.00	Dollars
Factors	7000	dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	18.756.96	Dollars
Factors	18757 Dollars								
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	37.628.10	Dollars
Factors	37628.1 Dollars								

WBS No: 1BAD11 Title: Decommissioning Set 11 2nd Floor

Activity ID: 1B07200500 Description: Set 11 Misc Systems IWCP Development

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPE2000	D&D 2ND FLR & MISC. SET 11 PLANNING & ENGINEERIN	1.00	each	HC	3.758	3.758	110.786	322.272	0	433.058	36.228	469.286
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	102.231	102.231	0	102.231
Total for Activity 1B07200500:						3.758	110.786	322.272	102.231	535.288	36.228	571.516

Line Item 2CDPE2000 - D&D 2ND FLR & MISC. SET 11 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	222.99	Hours
Factors	1	Engineer		743.3 hours		0.3 adi Factor			
750	STRAIGHT TIME BASE		E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	576.70	Hours
Factors	1	engineer		576.7 hours					
750	STRAIGHT TIME BASE		E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	564.60	Hours
Factors	1	engineer		1129.2 hours		0.5 adi. Factor			
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	1,582.40	Hours
Factors	4	Engineers		1582.4 hours		0.25 adi. Factor			
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	651.76	Hours
Factors	2	Admin Assist.		1629.4 hours		0.2 adi. Factor			
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	160.00	Hours
Factors	2	D&D Workers (walkdowns)		80 hours					
A57	LATA		P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	143,910.90	Dollars
Factors	6	planners		1353.9 hours		63.27 Dollars per hour	0.28 adi. Factor		
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	71950	dollars		0 adi. Factor					
A5H	SUBCONTRACTED SRVS		E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	17,765.30	Dollars
Factors	1115	hours		53.11 \$/hr		0.3 adi. Factor			
A5H	SUBCONTRACTED SRVS		E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	61,665.85	Dollars
Factors	865	hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS		E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	61,667.61	Dollars
Factors	1693.7	hours		72.82 \$/hr		0.5 adi. Factor			
A5H	SUBCONTRACTED SRVS		E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	16,704.19	Dollars
Factors	534.5	hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		

WBS No: 1BAD11
Activity ID: 1B07200500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	20.557.79	Dollars
Factors	662.3 hours		77.6 \$/hr	0.4	adi. Factor			

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	64.013.98	Dollars
Factors	64014 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	38.216.53	Dollars
Factors	38216.5 Dollars							

Activity ID: 1B07202500 Description: Set 11 Misc. Systems Stripout

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDED2DC0	Decontaminate Set	1.00	each	HC	8.849	8.849	201.100	249.395	0	450.495	61.949	512.444
2CDED2DR0	Duct Removal	1.00	each	HC	7.572	7.572	174.789	12.129	0	186.918	53.844	240.762
2CDED2EA0	Electrical & Alarms	1.00	each	HC	98.986	98.986	2,311.177	130.414	0	2,441.591	711.964	3,153.555
2CDED2EE0	External Equipment Removal	1.00	each	HC	36.947	36.947	850.814	52.536	0	903.350	262.096	1,165.446
2CDED2PR0	Pipe Removal	1.00	each	HC	4.239	4.239	98.963	5.440	0	104.403	30.486	134.889
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	1,573.174	1,573.174	0	1,573.174
Total for Activity 1B07202500:						156.593	3,636.842	449.915	1,573.174	5,659.931	1,120.339	6,780.270

Line Item 2CDED2DC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	32.00	Hours
Factors	32	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	438.00	Hours
Factors	438	Hours							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,415.00	Hours
Factors	998	Hours	1.41784 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	5,628.00	Hours
Factors	5628	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	6.00	Hours
Factors	6	Hours							
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	4.00	Hours
Factors	4	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	200.00	Hours
Factors	200	Hours							
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	1,126.00	Hours
Factors	1126	Hours							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facilitv Disposition	Linear	12,462.33	Dollars
Factors	171643	Dollars	0.41348 adi Factor 0.1756 adi. to remv. Waste costs						
A5H	SUBCONTRACTED SRVS		E130	OTHER ENGINEERS	KB30S	B707 Facilitv Disposition	Linear	236,933.00	Dollars
Factors	236933	Dollars							

Line Item 2CDED2DR0 - Duct Removal

BOE

WBS No: 1BAD11
Activity ID: 1B07202500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	62.00	Hours
Factors	62	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3,576.00	Hours
Factors	3576	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KB20H	B707 Facilities Management	Linear	632.00	Hours
Factors	632	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	557.10	Hours
Factors	619	Hours						
		0.9 adj. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sfty & Quality	Linear	1,015.75	Hours
Factors	840	Hours						
		1.20923 4 to 1 adj. Factor						
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	487.00	Hours
Factors	487	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	12.00	Hours
Factors	12	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	715.00	Hours
Factors	715	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC.H. WS	KB20H	B707 Facilities Management	Linear	126.00	Hours
Factors	126	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	124.00	Hours
Factors	124	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sfty & Quality	Linear	168.00	Hours
Factors	168	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	97.00	Hours
Factors	97	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	12,129.34	Dollars
Factors	149197	Dollars						
		0.46298 adj Factor						
		0.1756 adj. to remv. Waste costs						

Line Item 2CDED2EA0 - Electrical & Alarms

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8,261.00	Hours
Factors	8261	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	13,159.00	Hours
Factors	13159	Hours						

WBS No: 1BAD11
Activity ID: 1B07202500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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							Starts In FY	*
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	3,660.00	Hours
Factors	3660	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	7,754.40	Hours
Factors	8616	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	12,360.75	Hours
Factors	16429	Hours	0.75237	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	36,284.00	Hours
Factors	36284	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	225.00	Hours
Factors	225	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	1,652.00	Hours
Factors	1652	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	2,632.00	Hours
Factors	2632	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	732.00	Hours
Factors	732	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,723.00	Hours
Factors	1723	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	3,286.00	Hours
Factors	3286	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	7,257.00	Hours
Factors	7257	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	130,414.00	Dollars
Factors	2080537	Dollars	0.35697	adj Factor	0.1756	adj. to remv. Waste costs		

Line Item 2CDE2EE0 - External Equipment Removal

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	1,857.00	Hours
Factors	1857	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	4,721.00	Hours
Factors	4721	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	245.00	Hours
Factors	245	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	2,639.70	Hours
Factors	2933	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	5,313.25	Hours
Factors	1910	Hours	2.78181	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	16,532.00	Hours
Factors	16532	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	371.00	Hours
Factors	371	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	944.00	Hours
Factors	944	Hours						

WBS No: 1BAD11
Activity ID: 1B07202500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	49.00	Hours
Factors	49	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	587.00	Hours
Factors	587	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	382.00	Hours
Factors	382	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,306.00	Hours
Factors	3306	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	52,536.16	Dollars
Factors	715442	Dollars	0.41818	adi Factor	0.1756	adi. to remv. Waste costs		

Line Item 2CDED2PR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	1,950.00	Hours
Factors	1950	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	70.00	Hours
Factors	70	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	366.00	Hours
Factors	366	Hours								
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	618.75	Hours
Factors	635	Hours	0.97441		4 to 1 adi. Factor					
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	525.00	Hours
Factors	525	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	390.00	Hours
Factors	390	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS		KB20H	B707 Facilities Management	Linear	14.00	Hours
Factors	14	Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	73.00	Hours
Factors	73	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Eng Envir. Sftv & Quality	Linear	127.00	Hours
Factors	127	Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	105.00	Hours
Factors	105	Hours								
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	5,440.13	Dollars
Factors	77322	Dollars	0.40067		adi Factor		0.1756		adi. to remv. Waste costs	

Line Item SYS - Contingency And Escalation

BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	948.766.60	Dollars
	Factors 948767 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	624.407.10	Dollars
	Factors 624407 Dollars									

Activity ID: 1B07202505 Description: Set 11 Stripout PL 105/106

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE	Labor	Labor Hours	Labor Cost	Materials/ Sub	Contingency	Total Prime	Burden Cost	Total Cost
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WBS No: 1BAD11
Activity ID: 1B07202505

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

				Type	Hours/Unit	Total	Total	Cost	& Escalation	Cost	Starts in FY	
2CDEDPL05	Stripout PL 105 Execution - D&D	0.50	each	HC	4.833	2.416	56.768	34.598	0	91.367	16.009	107.375
2CDEDPL06	Stripout PL 106 Execution - D&D	0.50	each	HC	4.833	2.416	56.768	34.598	0	91.367	16.009	107.375
2CDPE2050	D&D PLENUM 105 PLANNING & ENGINEERING	1.00	each	HC	883	883	24.618	61.006	0	85.624	6.942	92.566
2CDPE2060	D&D PLENUM 106 PLANNING & ENGINEERING	1.00	each	HC	883	883	24.618	61.006	0	85.624	6.942	92.566
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	57.535	57.535	0	57.535
Total for Activity 1B07202505:						6.598	162.773	191.208	57.535	411.516	45.902	457.418

Line Item 2CDEDPL05 - Stripout PL 105 Execution - D&D

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.											
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41	Hours							
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	736.00	Hours
Factors	736	Hours							
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	35.00	Hours
Factors	35	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	442.80	Hours
Factors	492	Hours		0.9 adj. to allocate Waste Ops foremen					
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	671.75	Hours
Factors	1074	Hours		0.62547 4 to 1 adj. Factor					
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	1.951.00	Hours
Factors	1951	Hours							
	750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours							
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	147.00	Hours
Factors	147	Hours							
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	98.00	Hours
Factors	98	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	215.00	Hours
Factors	215	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	390.00	Hours
Factors	390	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilityv Disposition	Linear	69.196.81	Dollars
Factors	127034	Dollars		1.08 adj. Factor		0.50436 adj. To remv. Waste costs			

Line Item 2CDEDPL06 - Stripout PL 106 Execution - D&D

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title											
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WBS No: 1BAD11
Activity ID: 1B07202505

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	736.00	Hours
Factors	736	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemement	Linear	35.00	Hours
Factors	35	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	442.80	Hours
Factors	492	Hours	0.9 adj. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	671.75	Hours
Factors	1074	Hours	0.62547 4 to 1 adj. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,951.00	Hours
Factors	1951	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Managemement	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	147.00	Hours
Factors	147	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemement	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	98.00	Hours
Factors	98	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	215.00	Hours
Factors	215	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	390.00	Hours
Factors	390	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	69,196.81	Dollars
Factors	127034	Dollars	1.08 adj. Factor		0.50436 adj. To remv. Waste costs			

Line Item 2CDPE2050 - D&D PLENUM 105 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	49.60	Hours
Factors	1	Engineer	49.6	hours				
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	38.40	Hours
Factors	1	engineer	38.4	hours				
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	75.30	Hours
Factors	1	engineer	75.3	hours				
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	422.00	Hours
Factors	4	Engineers	105.5	hours				

WBS No: 1BAD11
Activity ID: 1B07202505

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	217.40	Hours
Factors	2	Admin Assist.	108.7	hours				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2	D&D Workers (walkdowns)	40	hours				
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	34.279.69	Dollars
Factors	6	planners	90.3	hours	63.27	\$/hour		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	4.797.00	Dollars
Factors	4797	dollars						
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	3.946.07	Dollars
Factors	74.3	hours	53.11	\$/hr				
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	4.106.30	Dollars
Factors	57.6	hours	71.29	\$/hr				
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	8.221.38	Dollars
Factors	112.9	hours	72.82	\$/hr				
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	2.225.14	Dollars
Factors	35.6	hours	96.16	\$/hr	0.65	nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	3.429.92	Dollars
Factors	44.2	hours	77.6	\$/hr				

Line Item 2CDPE2060 - D&D PLENUM 106 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	49.60	Hours
Factors	1	Engineer	49.6	hours				
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	38.40	Hours
Factors	1	engineer	38.4	hours				
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	75.30	Hours
Factors	1	engineer	75.3	hours				
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	422.00	Hours
Factors	4	Engineers	105.5	hours				
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	217.40	Hours
Factors	2	Admin Assist.	108.7	hours				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2	D&D Workers (walkdowns)	40	hours				
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	34.279.69	Dollars
Factors	6	planners	90.3	hours	63.27	\$/hour		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	4.797.00	Dollars
Factors	4797	dollars						
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	3.946.07	Dollars
Factors	74.3	hours	53.11	\$/hr				
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	4.106.30	Dollars
Factors	57.6	hours	71.29	\$/hr				
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	8.221.38	Dollars
Factors	112.9	hours	72.82	\$/hr				

WBS No: 1BAD11
Activity ID: 1B07202505

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	2,225.14	Dollars
Factors	35.6 hours		96.16 \$/hr		0.65 nuclear safety eng.			
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3,429.92	Dollars
Factors	44.2 hours		77.6 \$/hr					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	19,139.40	Dollars
Factors	19139.4 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	38,395.30	Dollars
Factors	38395.3 Dollars							

Activity ID: 1B07202605 Description: Set 11 Stripout PL 101/103

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDPL01	Stripout PL 101 Execution - D&D	0.50	each	HC	4.833	2.416	56.768	43.056	0	99.824	16.009	115.833
2CDEDPL03	Stripout PL 103 Execution - D&D	0.50	each	HC	4.833	2.416	56.768	43.056	0	99.824	16.009	115.833
2CDPE2010	D&D PLENUM 101 PLANNING & ENGINEERING	1.00	each	HC	1.284	1.284	36.114	91.494	0	127.608	10.184	137.792
2CDPE2030	D&D PLENUM 103 PLANNING & ENGINEERING	1.00	each	HC	1.284	1.284	36.114	91.494	0	127.608	10.184	137.792
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	72.982	72.982	0	72.982
Total for Activity 1B07202605:						7.401	185.763	269.101	72.982	527.847	52.385	580.232

Line Item 2CDEDPL01 - Stripout PL 101 Execution - D&D

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41 Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	736.00	Hours
Factors	736 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	35.00	Hours
Factors	35 Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	442.80	Hours
Factors	492 Hours		0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	671.75	Hours
Factors	1074 Hours		0.62547 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,951.00	Hours
Factors	1951 Hours							
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90 Hours							
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8 Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	147.00	Hours
Factors	147 Hours							
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7 Hours							

WBS No: 1BAD11
Activity ID: 1B07202605

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	98.00	Hours
Factors	98	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	215.00	Hours
Factors	215	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	390.00	Hours
Factors	390	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	86.112.05	Dollars
Factors	140102	Dollars	1.1	adi. Factor	0.55876	adi. To remv. Waste costs		

Line Item 2CDEDPL03 - Stripout PL 103 Execution - D&D

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41	Hours							
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	736.00	Hours
Factors	736	Hours							
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	35.00	Hours
Factors	35	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	442.80	Hours
Factors	492	Hours	0.9 adi. to allocate Waste Ops foremen						
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	671.75	Hours
Factors	1074	Hours	0.62547 4 to 1 adi. Factor						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1.951.00	Hours
Factors	1951	Hours							
750	STRAIGHT TIME BASE		T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours							
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	147.00	Hours
Factors	147	Hours							
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours							
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	98.00	Hours
Factors	98	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	215.00	Hours
Factors	215	Hours							
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	390.00	Hours
Factors	390	Hours							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	86.112.05	Dollars
Factors	140102	Dollars	1.1 adi. Factor		0.55876 adi. To remv. Waste costs				

Line Item 2CDPE2010 - D&D PLENUM 101 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data:
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WBS No: 1BAD11
Activity ID: 1B07202605

Rockv Flats Closure Project
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Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	74.30	Hours
Factors	1 Engineer		74.3 hours					
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	57.70	Hours
Factors	1 engineer		57.7 hours					
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	112.90	Hours
Factors	1 engineer		112.9 hours					
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	633.20	Hours
Factors	4 Engineers		158.3 hours					
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	326.00	Hours
Factors	2 Admin Assist.		163 hours					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)		40 hours					
A52	TENERA	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	12,335.71	Dollars
Factors	169.4 hours		72.82 \$/hr					
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	51,400.55	Dollars
Factors	6 planners		135.4 hours					
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,195.00	Dollars
Factors	7195 dollars							
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	5,921.77	Dollars
Factors	111.5 hours		53.11 \$/hr					
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	6,166.58	Dollars
Factors	86.5 hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	3,337.71	Dollars
Factors	53.4 hours		96.16 \$/hr					
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	5,137.12	Dollars
Factors	66.2 hours		77.6 \$/hr					

Line Item 2CDPE2030 - D&D PLENUM 103 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	74.30	Hours
Factors	1 Engineer		74.3 hours					
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	57.70	Hours
Factors	1 engineer		57.7 hours					
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	112.90	Hours
Factors	1 engineer		112.9 hours					
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	633.20	Hours
Factors	4 Engineers		158.3 hours					

WBS No: 1BAD11
Activity ID: 1B07202605

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	326.00	Hours
Factors	2 Admin Assist.		163 hours					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)		40 hours					
A52	TENERA	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	12,335.71	Dollars
Factors	169.4 hours		72.82 \$/hr					
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	51,400.55	Dollars
Factors	6 planners		135.4 hours		63.27 \$/hour			
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7,195.00	Dollars
Factors	7195 dollars							
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	5,921.77	Dollars
Factors	111.5 hours		53.11 \$/hr					
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	6,166.58	Dollars
Factors	86.5 hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3,337.71	Dollars
Factors	53.4 hours		96.16 \$/hr		0.65 nuclear safety eng.			
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	5,137.12	Dollars
Factors	66.2 hours		77.6 \$/hr					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	24,278.22	Dollars
Factors	24278.2 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	48,704.23	Dollars
Factors	48704.2 Dollars							

Activity ID: 1B07202705 Description: Set 11 Stripout PL 102/104

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDPL02	Stripout PL 102 Execution - D&D	0.50	each	HC	5.575	2.788	65,711	39,513	0	105,224	18,531	123,754
2CDEDPL04	Stripout PL 104 Execution - D&D	0.50	each	HC	5.575	2.788	65,711	39,513	0	105,224	18,531	123,754
2CDPE2020	D&D PLENUM 102 PLANNING & ENGINEERING	1.00	each	HC	1,284	1,284	36,114	91,494	0	127,608	10,184	137,792
2CDPE2040	D&D PLENUM 104 PLANNING & ENGINEERING	1.00	each	HC	1,284	1,284	36,114	91,494	0	127,608	10,184	137,792
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	75,262	75,262	0	75,262
Total for Activity 1B07202705:						8,143	203,649	262,014	75,262	540,925	57,429	598,354

Line Item 2CDEDPL02 - Stripout PL 102 Execution - D&D

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41 Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	915.00	Hours
Factors	915 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH, WS	KB20H	B707 Facilities Management	Linear	35.00	Hours
Factors	35 Hours							

WBS No: 1BAD11
Activity ID: 1B07202705

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	574.20	Hours
Factors	638	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	768.00	Hours
Factors	1190	Hours	0.64538	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,157.00	Hours
Factors	2157	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	183.00	Hours
Factors	183	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	128.00	Hours
Factors	128	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	238.00	Hours
Factors	238	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	431.00	Hours
Factors	431	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	79,025.16	Dollars
Factors	140024	Dollars	1.05	adj. Factor	0.53749	adj. To remv. Waste costs		

Line Item 2CDEDPLO4 - Stripout PL 104 Execution - D&D

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	41.00	Hours
Factors	41 Hours							
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	915.00	Hours
Factors	915 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	35.00	Hours
Factors	35 Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	574.20	Hours
Factors	638 Hours		0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	768.00	Hours
Factors	1190 Hours		0.64538 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,157.00	Hours
Factors	2157 Hours							
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90 Hours							
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8 Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	183.00	Hours
Factors	183 Hours							

WBS No: 1BAD11
Activity ID: 1B07202705

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Starts In FY *

751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	128.00	Hours
Factors	128	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	238.00	Hours
Factors	238	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	431.00	Hours
Factors	431	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	79,025.16	Dollars
Factors	140024	Dollars	1.05	adi. Factor	0.53749	adi. To remv. Waste costs		

Line Item 2CDPE2020 - D&D PLENUM 102 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	74.30	Hours
Factors	1 Engineer	74.3 hours			
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	57.70	Hours
Factors	1 engineer	57.7 hours			
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	112.90	Hours
Factors	1 engineer	112.9 hours			
750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	633.20	Hours
Factors	4 Engineers	158.3 hours			
750 STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	326.00	Hours
Factors	2 Admin Assist.	163 hours			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)	40 hours			
A57 LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	51,400.55	Dollars
Factors	6 planners	135.4 hours	63.27 \$/hour		
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	7,195.00	Dollars
Factors	7195 dollars				
A5H SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	5,921.77	Dollars
Factors	111.5 hours	53.11 \$/hr			
A5H SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	6,166.58	Dollars
Factors	86.5 hours	71.29 \$/hr			
A5H SUBCONTRACTED SRVS	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	12,335.71	Dollars
Factors	169.4 hours	72.82 \$/hr			
A5H SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	3,337.71	Dollars
Factors	53.4 hours	96.16 \$/hr	0.65 nuclear safetv eng.		
A5H SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	5,137.12	Dollars
Factors	66.2 hours	77.6 \$/hr			

Line Item 2CDPE2040 - D&D PLENUM 104 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:

WBS No: 1BAD11
Activity ID: 1B07202705

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	74.30	Hours
Factors	1 Engineer		74.3 hours					
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	57.70	Hours
Factors	1 engineer		57.7 hours					
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	112.90	Hours
Factors	1 engineer		112.9 hours					
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	633.20	Hours
Factors	4 Engineers		158.3 hours					
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	326.00	Hours
Factors	2 Admin Assist.		163 hours					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)		40 hours					
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	51.400.55	Dollars
Factors	6 planners		135.4 hours		63.27 \$/hour			
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	7.195.00	Dollars
Factors	7195 dollars							
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	5.921.77	Dollars
Factors	111.5 hours		53.11 \$/hr					
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	6.166.58	Dollars
Factors	86.5 hours		71.29 \$/hr					
A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	12.335.71	Dollars
Factors	169.4 hours		72.82 \$/hr					
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	3.337.71	Dollars
Factors	53.4 hours		96.16 \$/hr		0.65 nuclear safety eng.			
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	5.137.12	Dollars
Factors	66.2 hours		77.6 \$/hr					

Line Item SYS - Contingency And Escalation

BOE

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	25.036.49	Dollars
Factors	25036.5 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	50.225.38	Dollars
Factors	50225.4 Dollars							

Activity ID: 1B07202805 Description: Set 11 Stripout PL 107/108

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDPL07	Stripout PL 107 Execution - D&D	0.50	each	HC	5.454	2.727	64.038	36.683	0	100.721	18.059	118.779
2CDEDPL08	Stripout PL 108 Execution - D&D	0.50	each	HC	5.454	2.727	64.038	36.683	0	100.721	18.059	118.779
2CDPE2070	D&D PLENUM 107 PLANNING & ENGINEERING	1.00	each	HC	883	883	24.618	61.006	0	85.624	6.942	92.566
2CDPE2080	D&D PLENUM 108 PLANNING & ENGINEERING	1.00	each	HC	883	883	24.618	61.006	0	85.624	6.942	92.566
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	60.355	60.355	0	60.355
Total for Activity 1B07202805:						7.219	177.313	195.376	60.355	433.044	50.002	483.047

Line Item 2CDEDPL07 - Stripout PL 107 Execution - D&D

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.

WBS No: 1BAD11
Activity ID: 1B07202805

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	41.00	Hours
Factors	41	Hours					
	750	STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	848.00	Hours
Factors	848	Hours					
	750	STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemnt	Linear	39.00	Hours
Factors	39	Hours					
	750	STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facilityv Disposition	Linear	493.20	Hours
Factors	548	Hours	0.9 adi. to allocate Waste Ops foremen				
	750	STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	762.75	Hours
Factors	1200	Hours	0.63563 4 to 1 adi. Factor				
	750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facilityv Disposition	Linear	2,203.00	Hours
Factors	2203	Hours					
	750	STRAIGHT TIME BASE	T070 MAINT. TECHS. (INSTRUMENT TEC	KB20H B707 Facilities Managemnt	Linear	90.00	Hours
Factors	90	Hours					
	751	OVERTIME BASE & PRE.	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours					
	751	OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	170.00	Hours
Factors	170	Hours					
	751	OVERTIME BASE & PRE.	L060 MISSION SUP SPEC II (FLTTC. WS	KB20H B707 Facilities Managemnt	Linear	8.00	Hours
Factors	8	Hours					
	751	OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facilityv Disposition	Linear	110.00	Hours
Factors	110	Hours					
	751	OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	240.00	Hours
Factors	240	Hours					
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facilityv Disposition	Linear	441.00	Hours
Factors	441	Hours					
	A5C	SUPPLIES	0000 NONE	KB30S B707 Facilityv Disposition	Linear	73.365.27	Dollars
Factors	137248	Dollars	1.03 adi. Factor	0.51898 adi. To rmv. Waste costs			

Line Item 2CDEDPL08 - Stripout PL 108 Execution - D&D

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020 ELECTRICIANS	KB10H 707 Complex Steelworkers	Linear	41.00	Hours
Factors	41	Hours					
	750	STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facilityv Disposition	Linear	848.00	Hours
Factors	848	Hours					

WBS No: 1BAD11
Activity ID: 1B07202805

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	39.00	Hours
Factors	39	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	493.20	Hours
Factors	548	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	762.75	Hours
Factors	1200	Hours	0.63563	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,203.00	Hours
Factors	2203	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	170.00	Hours
Factors	170	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC	KB20H	B707 Facilities Management	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	110.00	Hours
Factors	110	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	240.00	Hours
Factors	240	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	441.00	Hours
Factors	441	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	73,365.27	Dollars
Factors	137248	Dollars	1.03	adj. Factor	0.51898	adj. To remov. Waste costs		

Line Item 2CDPE2070 - D&D PLENUM 107 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	49.60	Hours
Factors	1	Engineer	49.6 hours						
750	STRAIGHT TIME BASE		E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	38.40	Hours
Factors	1	engineer	38.4 hours						
750	STRAIGHT TIME BASE		E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	75.30	Hours
Factors	1	engineer	75.3 hours						
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	422.00	Hours
Factors	4	Engineers	105.5 hours						
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	217.40	Hours
Factors	2	Admin Assist.	108.7 hours						
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	80.00	Hours
Factors	2	D&D Workers (walkdowns)	40 hours						
A52	TENERA		E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	8,221.38	Dollars
Factors	112.9 hours		72.82 \$/hr						
A57	LATA		P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	34,279.69	Dollars
Factors	6	planners	90.3 hours		63.27 \$/hour				

WBS No: 1BAD11
Activity ID: 1B07202805

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	4,797.00	Dollars
Factors	4797	dollars						
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	3,946.07	Dollars
Factors	74.3	hours	53.11	\$/hr				
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	4,106.30	Dollars
Factors	57.6	hours	71.29	\$/hr				
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Ena Envir. Sftv & Quality	Linear	2,225.14	Dollars
Factors	35.6	hours	96.16	\$/hr	0.65	nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	3,429.92	Dollars
Factors	44.2	hours	77.6	\$/hr				

Line Item 2CDPE2080 - D&D PLENUM 108 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	49.60	Hours
Factors	1 Engineer	49.6 hours			
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	38.40	Hours
Factors	1 engineer	38.4 hours			
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	75.30	Hours
Factors	1 engineer	75.3 hours			
750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	422.00	Hours
Factors	4 Engineers	105.5 hours			
750 STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	217.40	Hours
Factors	2 Admin Assist.	108.7 hours			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors	2 D&D Workers (walkdowns)	40 hours			
A52 TENERA	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	8,221.38	Dollars
Factors	112.9 hours	72.82 \$/hr			
A57 LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	34,279.69	Dollars
Factors	6 planners	90.3 hours	63.27 \$/hour		
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	4,797.00	Dollars
Factors	4797 dollars				
A5H SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	3,946.07	Dollars
Factors	74.3 hours	53.11 \$/hr			
A5H SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	4,106.30	Dollars
Factors	57.6 hours	71.29 \$/hr			
A5H SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	2,225.14	Dollars
Factors	35.6 hours	96.16 \$/hr	0.65 nuclear safety eng.		
A5H SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	3,429.92	Dollars
Factors	44.2 hours	77.6 \$/hr			

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	19,769.72	Dollars
Factors	19769.7 Dollars				

WBS No: 1BAD11
Activity ID: 1B07202805

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	40,585.27	Dollars
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Factors 40585.3 Dollars

Activity ID: 1B07203500 Description: Set 11. Misc. Systems - Execution Trades

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDET2DC0	Decontaminate Set	1.00	each	HC	0	0	0	1,035.000	0	1,035.000	0	1,035.000
2CDET2DR0	Duct Removal	1.00	each	HC	0	0	0	186.639	0	186.639	0	186.639
2CDET2EA0	Electrical & Alarms	1.00	each	HC	0	0	0	2,964.855	0	2,964.855	0	2,964.855
2CDET2EE0	External Equipment Removal	1.00	each	HC	0	0	0	1,205.978	0	1,205.978	0	1,205.978
2CDET2PR0	Pipe Removal	1.00	each	HC	0	0	0	108.464	0	108.464	0	108.464
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	2,942.606	2,942.606	0	2,942.606
Total for Activity 1B07203500:						0	0	5,500.936	2,942.606	8,443.542	0	8,443.542

Line Item 2CDET2DC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	969,000.00	Dollars
	Factors 969000 Dollars			adi Factor						
	A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	66,000.00	Dollars
	Factors 66000 dollars									

Line Item 2CDET2DR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	76.639.00	Dollars
	Factors	76639	Dollars							
	A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	110.000.00	Dollars
	Factors	110000	dollars							

Line Item 2CDET2EA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD11
Activity ID: 1B07203500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	2,849,855.00	Dollars
Factors 2849855 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	115,000.00	Dollars
Factors 115000 dollars									

Line Item 2CDET2EE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	1,059,978.00	Dollars
Factors 1059978 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	146,000.00	Dollars
Factors 146000 dollars									

Line Item 2CDET2PR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	65,464.00	Dollars
Factors 65464 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	43,000.00	Dollars
Factors 43000 dollars									

Line Item SYS - Contingency And Escalation

BOE									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	2,090,426.00	Dollars
Factors 2090426 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	852,180.10	Dollars
Factors 852180 Dollars									

Activity ID: 1B07203505 Description: Set 11. Stripout PL 105/106 - Trades

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETPL05	Stripout PL 105 Execution - Trades	0.50	each	HC	0	0	0	51.331	0	51.331	0	51.331
2CDETPL06	Stripout PL 106 Execution - Trades	0.50	each	HC	0	0	0	51.331	0	51.331	0	51.331
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	54.916	54.916	0	54.916
Total for Activity 1B07203505:						0	0	102.661	54.916	157.577	0	157.577

WBS No: 1BAD11
Activity ID: 1B07203505

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item 2CDETPLO5 - Stripout PL 105 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenems estimated.											
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	102.661.00	Dollars

Factors 102661 Dollars

Line Item 2CDETPLO6 - Stripout PL 106 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenems estimated.											
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	102.661.00	Dollars

Factors 102661 Dollars

Line Item SYS - Contingency And Escalation

BOE												
Resources	Cost Element		Skill		Department		Curve	Quantity	Units			
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	39.012.48	Dollars			

Factors 39012.5 Dollars

	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	15.903.78	Dollars			
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Factors 15903.8 Dollars

Activity ID: 1B07203605 Description: Set 11. Stripout PL 101/103 - Trades

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETPLO1	Stripout PL 101 Execution - Trades	0.50	each	HC	0	0	0	40.679	0	40.679	0	40.679
2CDETPLO3	Stripout PL 103 Execution - Trades	0.50	each	HC	0	0	0	40.679	0	40.679	0	40.679
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	11.617	11.617	0	11.617
Total for Activity 1B07203605:						0	0	81.357	11.617	92.974	0	92.974

Line Item 2CDETPLO1 - Stripout PL 101 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenems estimated.											
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WBS No: 1BAD11
Activity ID: 1B07203605

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	81.357.24	Dollars
Factors 142732 Dollars 0.57 adi. Factor									

Line Item 2CDETPLO3 - Stripout PL 103 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	81.357.24	Dollars
Factors 142732 Dollars 0.57 adi. Factor									

Line Item SYS - Contingency And Escalation

BOE									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3.805.16	Dollars
Factors 3805.16 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	7.811.62	Dollars
Factors 7811.62 Dollars									

Activity ID: 1B07203705 Description: Set 11, Stripout PL 102/104 - Trades

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETPLO2	Stripout PL 102 Execution - Trades	0.50	each	HC	0	0	0	26.273	0	26.273	0	26.273
2CDETPLO4	Stripout PL 104 Execution - Trades	0.50	each	HC	0	0	0	26.273	0	26.273	0	26.273
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	15.522	15.522	0	15.522
Total for Activity 1B07203705:						0	0	52.546	15.522	68.068	0	68.068

Line Item 2CDETPLO2 - Stripout PL 102 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - 50% Revised Unit Cost - Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	52.545.95	Dollars
Factors 26405 Dollars 1.99 adi. Factor									

Line Item 2CDETPLO4 - Stripout PL 104 Execution - Trades

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost -								
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WBS No: 1BAD11
Activity ID: 1B07203705

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	52.545.95	Dollars
Factors		26405	Dollars	1.99	adi. Factor				

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	9.257.65	Dollars
Factors		9257.65	Dollars						
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	6.264.48	Dollars
Factors		6264.48	Dollars						

Activity ID: 1B07203805 Description: Set 11. Stripout PL 107/108 - Trades

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETPLO7	Stripout PL 107 Execution - Trades	0.50	each	HC	0	0	0	52.925	0	52.925	0	52.925
2CDETPLO8	Stripout PL 108 Execution - Trades	0.50	each	HC	0	0	0	52.925	0	52.925	0	52.925
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	56.622	56.622	0	56.622
Total for Activity 1B07203805:						0	0	105.850	56.622	162.472	0	162.472

Line Item 2CDETPLO7 - Stripout PL 107 Execution - Trades

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	105.850.00	Dollars
Factors		105850	Dollars						

Line Item 2CDETPLO8 - Stripout PL 108 Execution - Trades

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor - 50%
Revised Unit Cost -
Basis for adjustment - Line Item Quantity (Adjustment Factor) reflects effort to execute activity for one plenum, instead of the two plenums estimated.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION		C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	105.850.00	Dollars
Factors		105850	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
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WBS No: 1BAD11
Activity ID: 1B07203805

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	40,224.34	Dollars
Factors	40224.3	Dollars						
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	16,397.80	Dollars
Factors	16397.8	Dollars						

WBS No: 1BAD12 Title: Decommissioning Set 12 CA Rooms & Corrid

Activity ID: 1B07100500 Description: IWCP Development - CA Rooms/1st floor

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPECAR0	D&D CA ROOMS SET 12 PLANNING & ENGINEERING	1.00	each	HC	2.382	2.382	70.419	192.340	0	262.758	22.388	285.146
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	61.873	61.873	0	61.873
Total for Activity 1B07100500:						2.382	70.419	192.340	61.873	324.632	22.388	347.019

Line Item 2CDPECAR0 - D&D CA ROOMS SET 12 PLANNING & ENGINEERING

BOE
Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	S100S SSOC Salaried	Linear	142.65	Hours
Factors 1 Engineer	475.5 hours	0.3 adi Factor			
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	369.00	Hours
Factors 1 engineer	369 hours				
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	361.20	Hours
Factors 1 engineer	722.4 hours	0.5 adi. Factor			
750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	1,012.30	Hours
Factors 4 Engineers	1012.3 hours	0.25 adi. Factor			
750 STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	417.00	Hours
Factors 2 Admin Assist.	1042.5 hours	0.2 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	80.00	Hours
Factors 2 D&D Workers (walkdowns)	40 hours				
A57 LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	92,060.88	Dollars
Factors 6 planners	866.1 hours	63.27 Dollars per hour	0.28 adi. Factor		
A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 46028 dollars	0 adi. Factor				
A5H SUBCONTRACTED SRVS	E020 CIVIL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	11,365.01	Dollars
Factors 713.3 hours	53.11 \$/hr	0.3 adi. Factor			
A5H SUBCONTRACTED SRVS	E040 ELECTRICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	39,451.89	Dollars
Factors 553.4 hours	71.29 \$/hr				
A5H SUBCONTRACTED SRVS	E070 MECHANICAL ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	25,625.36	Dollars
Factors 703.8 hours	72.82 \$/hr	0.5 adi. Factor			
A5H SUBCONTRACTED SRVS	E080 NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Ena Envir. Sftv & Quality	Linear	10,685.06	Dollars
Factors 341.9 hours	96.16 \$/hr	0.5 adi. Factor	0.65 nuclear safety end.		
A5H SUBCONTRACTED SRVS	E120 SAFETY ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	13,151.65	Dollars
Factors 423.7 hours	77.6 \$/hr	0.4 adi. Factor			
A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors 470819 Powertool balance adi.	0 adi factor for 11.9 % reduction				

Line Item SYS - Contingency And Escalation

BOE

WBS No: 1BAD12
Activity ID: 1B07100500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	37.609.95	Dollars
<i>Factors</i> 37610 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	24.263.29	Dollars
<i>Factors</i> 24263.3 Dollars									

Activity ID: 1B07102500 Description: Equipment Stripout-CA rooms/1st floor

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDRCV0	Remove Chainveyors to SR	1.00	each	HC	4.335	4.335	100.370	78.282	0	178.652	28.304	206.956
2CDEDRDC0	Decontaminate Set	1.00	each	HC	3.371	3.371	76.607	23.406	0	100.013	21.603	121.616
2CDEDRDR0	Duct Removal	1.00	each	HC	24.744	24.744	584.454	121.160	0	705.613	164.816	870.429
2CDEDRDA0	Electrical & Alarms	1.00	each	HC	24.271	24.271	566.618	224.843	0	791.461	159.786	951.248
2CDEDRDE0	External Equipment Removal	1.00	each	HC	1.404	1.404	32.561	24.342	0	56.903	9.182	66.085
2CDEDRPR0	Pipe Removal	1.00	each	HC	7.695	7.695	178.833	96.046	0	274.879	50.431	325.310
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	365.689	365.689	0	365.689
Total for Activity 1B07102500:						65.820	1,539.442	568.080	365.689	2,473.211	434.123	2,907.333

Line Item 2CDEDRCV0 - Remove Chainveyors to SR

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	21.00	Hours
<i>Factors</i> 21 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	882.00	Hours
<i>Factors</i> 882 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemnt	Linear	27.00	Hours
<i>Factors</i> 27 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	223.00	Hours
<i>Factors</i> 223 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	659.25	Hours
<i>Factors</i> 935 Hours 0.70508 4 to 1 adj. Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	1.755.00	Hours
<i>Factors</i> 1755 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	4.00	Hours
<i>Factors</i> 4 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilityv Disposition	Linear	176.00	Hours
<i>Factors</i> 176 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Managemnt	Linear	5.00	Hours
<i>Factors</i> 5 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilityv Disposition	Linear	45.00	Hours
<i>Factors</i> 45 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	187.00	Hours
<i>Factors</i> 187 Hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilityv Disposition	Linear	351.00	Hours
<i>Factors</i> 351 Hours									

WBS No: 1BAD12
Activity ID: 1B07102500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	58,149.90	Dollars
Factors	64611	Dollars	0.9	adi Factor				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	20,132.00	Dollars
Factors	20132	Dollars						

Line Item 2CDEDRDC0 - Decontaminate Set

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	32.00	Hours
Factors	32	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	158.00	Hours
Factors	158	Hours							
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	540.00	Hours
Factors	386	Hours	1.39896 4 to 1 adi. Factor						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	2,128.00	Hours
Factors	2128	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	6.00	Hours
Factors	6	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	4.00	Hours
Factors	4	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	77.00	Hours
Factors	77	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	426.00	Hours
Factors	426	Hours							
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	23,406.30	Dollars
Factors	26007	Dollars	0.9 adi Factor						

Line Item 2CDEDRDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	15.00	Hours
	Factors	15	Hours						
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	10,235.00	Hours
	Factors	10235	Hours						
	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	1,343.00	Hours
	Factors	1343	Hours						
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,583.10	Hours
	Factors	1759	Hours	0.9	adj. to allocate Waste Ops foremen				

WBS No: 1BAD12
Activity ID: 1B07102500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Baseline Devl
1BAD
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Starts In FY *

750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	3,324.75	Hours
Factors	4474	Hours	0.74313	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	3,064.00	Hours
Factors	3064	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3,047.00	Hours
Factors	3047	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	269.00	Hours
Factors	269	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	352.00	Hours
Factors	352	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	895.00	Hours
Factors	895	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	613.00	Hours
Factors	613	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	121,159.80	Dollars
Factors	134622	Dollars	0.9	adi Factor				

Line Item 2CDEDEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	1,848.00	Hours
Factors	1848	Hours						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	3,539.00	Hours
Factors	3539	Hours						
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	926.00	Hours
Factors	926	Hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1,846.80	Hours
Factors	2052	Hours	0.9	adi. to allocate Waste Ops foremen				
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	3,056.75	Hours
Factors	4324	Hours	0.70693	4 to 1 adi. Factor				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	8,688.00	Hours
Factors	8688	Hours						
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	370.00	Hours
Factors	370	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	708.00	Hours
Factors	708	Hours						
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTCCH. WS	KB20H	B707 Facilities Management	Linear	185.00	Hours
Factors	185	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	410.00	Hours
Factors	410	Hours						

WBS No: 1BAD12
Activity ID: 1B07102500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	865.00	Hours
Factors	865	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	1,738.00	Hours
Factors	1738	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	224,843.40	Dollars
Factors	249826	Dollars	0.9	adi Factor				

Line Item 2CDEEDREE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	15.00	Hours
Factors	15	Hours								
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	361.00	Hours
Factors	361	Hours								
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTCCH. WS		KB20H	B707 Facilities Management	Linear	12.00	Hours
Factors	12	Hours								
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	57.00	Hours
Factors	57	Hours								
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	212.25	Hours
Factors	367	Hours	0.57834 4 to 1 adi. Factor							
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	488.00	Hours
Factors	488	Hours								
751	OVERTIME BASE & PRE.		C020	ELECTRICIANS		KB10H	707 Complex Steelworkers	Linear	3.00	Hours
Factors	3	Hours								
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES		KB30H	B707 Facility Disposition	Linear	72.00	Hours
Factors	72	Hours								
751	OVERTIME BASE & PRE.		L060	MISSION SUP SPEC II (FLTTCCH. WS		KB20H	B707 Facilities Management	Linear	2.00	Hours
Factors	2	Hours								
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP		KB30S	B707 Facility Disposition	Linear	11.00	Hours
Factors	11	Hours								
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI		KB50H	B707 Env Envir. Sftv & Quality	Linear	73.00	Hours
Factors	73	Hours								
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KB30H	B707 Facility Disposition	Linear	98.00	Hours
Factors	98	Hours								
A5C	SUPPLIES		0000	NONE		KB30S	B707 Facility Disposition	Linear	24,342.30	Dollars
Factors	27047	Dollars	0.9 adi Factor							

Line Item 2CDEDRPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD12
Activity ID: 1B07102500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	4.356.00	Hours
Factors	4356 Hours							
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	155.00	Hours
Factors	155 Hours							
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	559.80	Hours
Factors	622 Hours		0.9 adi. to allocate Waste Ops foremen					
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	1.143.25	Hours
Factors	976 Hours		1.17136_4 to 1 adi. Factor					
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	217.00	Hours
Factors	217 Hours							
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	871.00	Hours
Factors	871 Hours							
751	OVERTIME BASE & PRE.	L060	MISSION SUP SPEC II (FLTTC. WS	KB20H	B707 Facilities Management	Linear	31.00	Hours
Factors	31 Hours							
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	124.00	Hours
Factors	124 Hours							
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Env Envir. Sftv & Quality	Linear	195.00	Hours
Factors	195 Hours							
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	43.00	Hours
Factors	43 Hours							
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	96.046.20	Dollars
Factors	106718 Dollars		0.9 adi Factor					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	121.649.40	Dollars
Factors	121649 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	244.039.20	Dollars
Factors	244039 Dollars							

Activity ID: 1B07103500

Description: IWCP Execution Trades - CA Rms/1st floor corrido

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETRDC0	Decontaminate Set	1.00	each	HC	0	0	0	554.490	0	554.490	0	554.490
2CDETRDR0	Duct Removal	1.00	each	HC	0	0	0	90.124	0	90.124	0	90.124
2CDETRER0	Electrical & Alarms	1.00	each	HC	0	0	0	712.038	0	712.038	0	712.038
2CDETRER0	External Equipment Removal	1.00	each	HC	0	0	0	44.210	0	44.210	0	44.210
2CDETRPR0	Pipe Removal	1.00	each	HC	0	0	0	57.564	0	57.564	0	57.564
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	209.836	209.836	0	209.836
Total for Activity 1B07103500:						0	0	1.458.426	209.836	1.668.263	0	1.668.263

Line Item 2CDETRDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

WBS No: 1BAD12
Activity ID: 1B07103500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	554.490.00	Dollars

Factors 554490 Dollars

Line Item 2CDETRDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -						
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	90.124.00	Dollars

Factors 90124 Dollars

Line Item 2CDETREAO - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -						
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	712.038.00	Dollars

Factors 712038 Dollars

Line Item 2CDETREE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -						
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	44.210.00	Dollars

Factors 44210 Dollars

Line Item 2CDETRPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor -						
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WBS No: 1BAD12
Activity ID: 1B07103500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	57.564.00	Dollars
Factors 57564 Dollars									

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	69.803.86	Dollars
Factors 69803.9 Dollars									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	140.032.60	Dollars
Factors 140033 Dollars									

WBS No: 1BAD13 Title: Decommissioning Set 13 Cold Office Space

Activity ID: 1B07300500 Description: IWCP Development - Cold Office Space

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPECOF0	D&D COLD OFFICES SET 13 PLANNING & ENGINEERING	1.00	each	HC	919	919	26.881	76.894	0	103.776	8.699	112.474
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	23.742	23.742	0	23.742
Total for Activity 1B07300500:						919	26.881	76.894	23.742	127.517	8.699	136.216

Line Item 2CDPECOF0 - D&D COLD OFFICES SET 13 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	53.22	Hours
Factors 1 Engineer 177.4 hours 0.3 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	137.60	Hours
Factors 1 engineer 137.6 hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	134.70	Hours
Factors 1 engineer 269.4 hours 0.5 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	377.60	Hours
Factors 4 Engineers 377.6 hours 0.25 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	155.52	Hours
Factors 2 Admin Assist 388.8 hours 0.2 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	60.00	Hours
Factors 2 D&D Workers (walkdowns) 30 hours									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	34.332.83	Dollars
Factors 6 planners 323 hours 63.27 Dollars per hour 0.28 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors 17168 dollars 0 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	4.238.18	Dollars
Factors 266 hours 53.11 \$/hr 0.3 adi Factor									
Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	14.714.26	Dollars
Factors 206.4 hours 71.29 \$/hr									

WBS No: 1BAD13
Activity ID: 1B07300500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	14.716.92	Dollars
Factors	404.2 hours		72.82 \$/hr		0.5 adi. Factor			
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3.987.76	Dollars
Factors	127.6 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.		
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	4.904.32	Dollars
Factors	158 hours		77.6 \$/hr		0.4 adi. Factor			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	179495 Powertool balance adi.		0 adi factor for 11.9 % reduction					

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	14.610.24	Dollars
Factors	14610.2 Dollars				
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	9.131.48	Dollars
Factors	9131.48 Dollars				

Activity ID: 1B07302500 Description: IWCP D&D Execution - Cold Office Space

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDEDNDC0	Decontaminate Set	1.00	each	HC	245	245	5.758	13.823	0	19.581	1.733	21.313
2CDEDNDR0	Duct Removal	1.00	each	HC	1.563	1.563	36.871	47.906	0	84.777	11.095	95.872
2CDEDNEA0	Electrical & Alarms	1.00	each	HC	485	485	11.330	61.246	0	72.576	3.409	75.985
2CDEDNEE0	External Equipment Removal	1.00	each	HC	294	294	6.925	29.155	0	36.080	2.084	38.164
2CDEDNPR0	Pipe Removal	1.00	each	HC	2.094	2.094	49.338	41.325	0	90.663	14.847	105.511
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	88.873	88.873	0	88.873
Total for Activity 1B07302500:						4.681	110.221	193.455	88.873	392.550	33.169	425.719

Line Item 2CDEDNDC0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	28.00	Hours
Factors	28 Hours				
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	29.00	Hours
Factors	29 Hours				
750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Eng Envir. Sftv & Quality	Linear	35.00	Hours
Factors	35 Hours	1 4 to 1 adi. Factor			
750 STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	112.00	Hours
Factors	112 Hours				
751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	6.00	Hours
Factors	6 Hours				
751 OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	6.00	Hours
Factors	6 Hours				
751 OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLIGI	KB50H B707 Eng Envir. Sftv & Quality	Linear	7.00	Hours
Factors	7 Hours				
751 OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	22.00	Hours
Factors	22 Hours				

WBS No: 1BAD13
Activity ID: 1B07302500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	13,823.00	Dollars
Factors		13823	Dollars					

Line Item 2CDEDNDR0 - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units	
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	578.00	Hours	
	Factors	578	Hours							
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	186.00	Hours	
	Factors	186	Hours							
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	223.00	Hours	
	Factors	223	Hours 1 4 to 1 adi. Factor							
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	315.00	Hours	
	Factors	315	Hours							
	751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	116.00	Hours	
	Factors	116	Hours							
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	37.00	Hours	
	Factors	37	Hours							
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	45.00	Hours	
	Factors	45	Hours							
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	63.00	Hours	
Factors	63	Hours								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	47,906.00	Dollars		
Factors	47906	Dollars								

Line Item 2CDEDNEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	84.00	Hours
	Factors	84	Hours						
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	84.00	Hours
	Factors	84	Hours						
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	35.00	Hours
	Factors	35	Hours						
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	42.00	Hours
	Factors	42	Hours						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	84.00	Hours
Factors	84	Hours							

WBS No: 1BAD13
Activity ID: 1B07302500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
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750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KB20H	B707 Facilities Management	Linear	90.00	Hours
Factors	90	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KB10H	707 Complex Steelworkers	Linear	17.00	Hours
Factors	17	Hours						
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	17.00	Hours
Factors	17	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	7.00	Hours
Factors	7	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	8.00	Hours
Factors	8	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	17.00	Hours
Factors	17	Hours						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facilitv Disposition	Linear	61.246.00	Dollars
Factors	61246	Dollars						

Line Item 2CDEDNEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	84.00	Hours
Factors	84	Hours							
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	35.00	Hours
Factors	35	Hours							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	42.00	Hours
Factors	42	Hours		1 4 to 1 adi. Factor					
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	84.00	Hours
Factors	84	Hours							
751	OVERTIME BASE & PRE.		C120	D&D SKILLED TRADES	KB30H	B707 Facilitv Disposition	Linear	17.00	Hours
Factors	17	Hours							
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facilitv Disposition	Linear	7.00	Hours
Factors	7	Hours							
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	8.00	Hours
Factors	8	Hours							
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facilitv Disposition	Linear	17.00	Hours
Factors	17	Hours							
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facilitv Disposition	Linear	29.155.00	Dollars
Factors	29155	Dollars							

Line Item 2CDEDNPR0 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD13
Activity ID: 1B07302500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	637.00	Hours
Factors 637 Hours								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	249.00	Hours
Factors 249 Hours								
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	299.00	Hours
Factors 299 Hours 1 4 to 1 adi. Factor								
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	560.00	Hours
Factors 560 Hours								
751	OVERTIME BASE & PRE.	C120	D&D SKILLED TRADES	KB30H	B707 Facility Disposition	Linear	127.00	Hours
Factors 127 Hours								
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	50.00	Hours
Factors 50 Hours								
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Ena Envir. Sftv & Quality	Linear	60.00	Hours
Factors 60 Hours								
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	112.00	Hours
Factors 112 Hours								
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	41.325.00	Dollars
Factors 41325 Dollars								

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	50.752.68	Dollars
Factors 50752.7 Dollars								
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	38.120.77	Dollars
Factors 38120.8 Dollars								

Activity ID: 1B07303500

Description: IWCP D&D Execution Trades - Cold Office Space

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETND0	Decontaminate Set	1.00	each	HC	0	0	0	49.485	0	49.485	0	49.485
2CDETND0	Duct Removal	1.00	each	HC	0	0	0	112.165	0	112.165	0	112.165
2CDETNEA0	Electrical & Alarms	1.00	each	HC	0	0	0	229.989	0	229.989	0	229.989
2CDETNEE0	External Equipment Removal	1.00	each	HC	0	0	0	41.130	0	41.130	0	41.130
2CDETNP0	Pipe Removal	1.00	each	HC	0	0	0	58.291	0	58.291	0	58.291
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	262.682	262.682	0	262.682
Total for Activity 1B07303500:						0	0	491.060	262.682	753.742	0	753.742

Line Item 2CDETND0 - Decontaminate Set

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	49.484.79	Dollars
Factors 183277 Dollars 0.27 adj Factor								

WBS No: 1BAD13
Activity ID: 1B07303500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item 2CDETNDRO - Duct Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	112.165.20	Dollars
Factors 196781 Dollars		0.57 adi Factor						

Line Item 2CDETNEA0 - Electrical & Alarms

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	229.989.30	Dollars
Factors 489339 Dollars		0.47 adi Factor						

Line Item 2CDETNEE0 - External Equipment Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	41.129.64	Dollars
Factors 152332 Dollars		0.27 adi Factor						

Line Item 2CDETNP00 - Pipe Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -					
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Cost Element		Skill		Department		Curve	Quantity	Units
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WBS No: 1BAD13
Activity ID: 1B07303500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	58,291.05	Dollars
Factors	102265	Dollars	0.57	adi Factor				

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	186.609.00	Dollars
	Factors 186609 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	76.072.79	Dollars
	Factors 76072.8 Dollars								

WBS No: 1BAD14 Title: Decommissioning Set 14 Exterior Tanks

Activity ID: 1B07400500 Description: IWCP Development - External Tanks

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEEXT0	D&D EXT. TANKS SET 14 PLANNING & ENGINEERING	1.00	each	HC	225	225	6,835	17,029	0	23,864	2,413	26,276
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	3,968	3,968	0	3,968
Total for Activity 1B07400500:						225	6,835	17,029	3,968	27,831	2,413	30,244

Line Item 2CDPEEXT0 - D&D EXT. TANKS SET 14 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	14.40	Hours
Factors	1	Engineer	48	hours	0.3	adi Factor			
	750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	42.00	Hours
Factors	1	engineer	42	hours					
	750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	33.00	Hours
Factors	1	engineer	66	hours	0.5	adi. Factor			
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	102.00	Hours
Factors	4	Engineers	102	hours	0.25	adi. Factor			
	750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	33.60	Hours
Factors	2	Admin Assist.	84	hours	0.2	adi. Factor			
	A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	9,034.96	Dollars
Factors	6	planners	85	hours	63.27	Dollars per hour	0.28	adi. Factor	
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	6200	dollars	0	adi. Factor					
	A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	637.32	Dollars
Factors	40	hours	53.11	\$/hr	0.3	adi. Factor			
	A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	2,851.60	Dollars
Factors	40	hours	71.29	\$/hr					
	A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	1,456.40	Dollars
Factors	40	hours	72.82	\$/hr	0.5	adi. Factor			
	A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Eng Envir. Sftv & Quality	Linear	1,000.06	Dollars
Factors	32	hours	96.16	\$/hr	0.5	adi. Factor	0.65	nuclear safety eng.	
	A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	2,048.64	Dollars
Factors	66	hours	77.6	\$/hr	0.4	adi. Factor			

WBS No: 1BAD14
Activity ID: 1B07400500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	2,739.88 Dollars
Factors		2739.88 Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1,227.93 Dollars
Factors		1227.93 Dollars					

Activity ID: 1B07403500 Description: IWCP Execution Trades - External Tanks

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETTT0	Tank Removal	1.00	each	HC	0	0	0	104,209	0	104,209	0	104,209
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	15,575	15,575	0	15,575
Total for Activity 1B07403500:						0	0	104,209	15,575	119,784	0	119,784

Line Item 2CDETTT0 - Tank Removal

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	104,209.00 Dollars
Factors		104209 Dollars					

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	10,705.58 Dollars
Factors		10705.6 Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	4,869.84 Dollars
Factors		4869.84 Dollars					

WBS No: 1BAD15 Title: Decommissioning Set 15 Type 1 Bldgs.

Activity ID: 1B07500500 Description: IWCP Development - Type 1 Bldg.

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPET1B0	D&D TYPE 1 BLDGS SET 15 PLANNING & ENGINEERING	1.00	each	HC	108	108	3,221	9,661	0	12,883	1,137	14,020
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	2,117	2,117	0	2,117
Total for Activity 1B07500500:						108	3,221	9,661	2,117	15,000	1,137	16,137

Line Item 2CDPET1B0 - D&D TYPE 1 BLDGS SET 15 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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WBS No: 1BAD15
Activity ID: 1B07500500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Resources	Cost Element		Skill		Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S SSOC Salaried	Linear	6.69	Hours
Factors	1	Engineer	22.3	hours	0.3	adi. Factor		
	750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S SSOC Salaried	Linear	17.30	Hours
Factors	1	engineer	17.3	hours				
	750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S SSOC Salaried	Linear	16.90	Hours
Factors	1	engineer	33.8	hours	0.5	adi. Factor		
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	47.40	Hours
Factors	4	Engineers	47.4	hours	0.25	adi. Factor		
	750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Linear	19.52	Hours
Factors	2	Admin Assist.	48.8	hours	0.2	adi. Factor		
	A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	4.304.89	Dollars
Factors	6	planners	40.5	hours	63.27	Dollars per hour	0.28	adi. Factor
	A5C	SUPPLIES	0000	NONE	KB30S B707 Facility Disposition	Linear	0.00	Dollars
Factors	2154	dollars	0	adi. Factor				
	A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S B707 Enq Envir. Sftv & Quality	Linear	532.16	Dollars
Factors	33.4	hours	53.11	\$/hr	0.3	adi. Factor		
	A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S B707 Enq Envir. Sftv & Quality	Linear	1.860.67	Dollars
Factors	26.1	hours	71.29	\$/hr				
	A5H	SUBCONTRACTED SRVS	E070	MECHANICAL ENGINEERS	KB50S B707 Enq Envir. Sftv & Quality	Linear	1.845.99	Dollars
Factors	50.7	hours	72.82	\$/hr	0.5	adi. Factor		
	A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S B707 Enq Envir. Sftv & Quality	Linear	500.03	Dollars
Factors	16	hours	96.16	\$/hr	0.5	adi. Factor	0.65	nuclear safety eng.
	A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S B707 Enq Envir. Sftv & Quality	Linear	617.70	Dollars
Factors	19.9	hours	77.6	\$/hr	0.4	adj. Factor		

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department	Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT No Department	Linear	1.461.84	Dollars
Factors	1461.84	Dollars						
	ESC	ESCALATION	0000	NONE	ZDEPT No Department	Linear	655.15	Dollars
Factors	655.155	Dollars						

Activity ID: 1B07503500 Description: IWCP Execution Trades - Type 1 Bldg.

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETOBD0	Type 1 Buildings	1.00	each	HC	0	0	0	881.598	0	881.598	0	881.598
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	132.091	132.091	0	132.091
Total for Activity 1B07503500:						0	0	881.598	132.091	1.013.688	0	1.013.688

Line Item 2CDETOBD0 - Type 1 Buildings

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources	Cost Element		Skill		Department	Curve	Quantity	Units
	A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C Building Trades Proj B Estimating Only	Linear	731.801.50	Dollars
Factors	1180325	Dollars	0.62	adi Factor				

WBS No: 1BAD15
Activity ID: 1B07503500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	12,090.00	Dollars
Factors	12090	Dollars						
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	137,706.00	Dollars
Factors	137706	Dollars						

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	89.619.88	Dollars
Factors	89619.9 Dollars								
ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	42.470.96	Dollars
Factors	42471 Dollars								

WBS No:	1BAD16	Title:	Demolition Set 16 B707 Cluster	Cost Risk	2	Schedule Risk	2
Activity ID:	1B07600500	Description:	IWCP Development 707 Cluster Demolition				

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPEDEM0	DEMO 707 CLUSTER SET 16 PLANNING & ENGINEERING	1.00	each	HC	2.309	2.309	68,982	206,784	0	275,766	24,006	299,772
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	161,962	161,962	0	161,962
Total for Activity 1B07600500:						2.309	68,982	206,784	161,962	437,729	24,006	461,734

Line Item 2CDPEDEM0 - DEMO 707 CLUSTER SET 16 PLANNING & ENGINEERING

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	143.07	Hours
Factors	1	Engineer	476.9 hours		0.3 adi Factor				
750	STRAIGHT TIME BASE		E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	370.00	Hours
Factors	1	engineer	370 hours						
750	STRAIGHT TIME BASE		E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	362.25	Hours
Factors	1	engineer	724.5 hours		0.5 adi. Factor				
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	1,015.30	Hours
Factors	4	Engineers	1015.3 hours		0.25 adi. Factor				
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	418.24	Hours
Factors	2	Admin Assist.	1045.6 hours		0.2 adi. Factor				
A57	LATA		P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	92,337.25	Dollars
Factors	6	planners	868.7 hours		63.27 Dollars per hour		0.28 adi. Factor		
A5C	SUPPLIES		0000	NONE	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	46165	dollars	0 adi. Factor						
A5H	SUBCONTRACTED SRVS		E020	CIVIL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	11,398.47	Dollars
Factors	715.4	hours	53.11 \$/hr		0.3 adi. Factor				
A5H	SUBCONTRACTED SRVS		E040	ELECTRICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	39,573.08	Dollars
Factors	555.1	hours	71.29 \$/hr						
A5H	SUBCONTRACTED SRVS		E070	MECHANICAL ENGINEERS	KB50S	B707 Enq Envir. Sftv & Quality	Linear	39,570.39	Dollars
Factors	1086.8	hours	72.82 \$/hr		0.5 adi. Factor				
A5H	SUBCONTRACTED SRVS		E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Enq Envir. Sftv & Quality	Linear	10,716.31	Dollars
Factors	342.9	hours	96.16 \$/hr		0.5 adi. Factor		0.65 nuclear safety eng.		

WBS No: 1BAD16
Activity ID: 1B07600500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	13,188.90	Dollars
Factors	424.9 hours		77.6 \$/hr		0.4 adi. Factor			
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	0.00	Dollars
Factors	1025217 Powertool balance adi.		0		adi factor for 11.9 % reduction			

Line Item SYS - Contingency And Escalation

BOE

Resources

CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	115,523.00	Dollars
Factors	115523 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	46,439.32	Dollars
Factors	46439.3 Dollars							

Activity ID: 1B07603500 Description: 707 Cluster Demolition

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDETSMD0	Demolition Execution - Trades	1.00	each	HC	0	0	0	8,304.144	0	8,304.144	0	8,304.144
2CDETSMD9	D&D B709 DEMOLITION EXECUTION	1.00	each	HC	0	0	0	52.241	0	52.241	0	52.241
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	7,093.331	7,093.331	0	7,093.331
Total for Activity 1B07603500:						0	0	8,356.384	7,093.331	15,449.715	0	15,449.715

Line Item 2CDETSMD0 - Demolition Execution - Trades

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	8,304.144.00	Dollars
Factors	8834195 Dollars		0.94		adi Factor			

Line Item 2CDETSMD9 - D&D B709 DEMOLITION EXECUTION

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	52,240.50	Dollars
Factors	55575 Dollars		0.94		adi Factor			

Line Item SYS - Contingency And Escalation

BOE

Resources

CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	5,229.439.00	Dollars
Factors	5229439 Dollars							

WBS No: 1BAD16
Activity ID: 1B07603500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1.863.893.00	Dollars
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Factors 1863893 Dollars

Activity ID: 1B07604500 Description: Final Status Survey

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CFSSXFS0	Final StatusSurvey	1.00	each	HC	0	0	0	6.692.322	0	6.692.322	0	6.692.322
2CFSSXFS9	D&D Final Survey Bldg 709	1.00	each	HC	0	0	0	42.275	0	42.275	0	42.275
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	3.810.411	3.810.411	0	3.810.411
Total for Activity 1B07604500:						0	0	6.734.597	3.810.411	10.545.008	0	10.545.008

Line Item 2CFSSXFS0 - Final StatusSurvey

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources										
	Cost Element		Skill		Department		Curve	Quantity	Units	
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	552.660.00	Dollars	

Factors 552660 Dollars

A5H	SUBCONTRACTED SRVS	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.139.662.00	Dollars
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Factors 6139662 Dollars (contracted final status survey)

Line Item 2CFSSXFS9 - D&D Final Survey Bldg 709

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources									
	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	3.805.00	Dollars

Factors 3805 Dollars

A5H	SUBCONTRACTED SRVS	0000	NONE	KB30S	B707 Facility Disposition	Linear	38.470.00	Dollars
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Factors 38470 Dollars (contracted final status survey)

Line Item SYS - Contingency And Escalation

BOE										
Resources	<i>Cost Element</i>			<i>Skill</i>		<i>Department</i>		<i>Curve</i>	<i>Quantity</i>	<i>Units</i>
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	2,661,227.00	Dollars

Factors 2661227 Dollars

ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1.149.184.00	Dollars
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Factors 1149184 Dollars

WBS No: 1BAD17 Title: Decommissioning Set 17 B778

Activity ID: 1B07700500 Description: IWCP Development - B778 Type 2 Bldg.

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
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WBS No: 1BAD17
Activity ID: 1B07700500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

2CDPET2B0	D&D TYPE 2 BLDGS SET 17 PLANNING & ENGINEERING	1.00	each	HC	611	611	17.695	58.809	0	76.505	6.123	82.627
2CDPET2B9	D&D BLDG 709 PLANNING & ENGINEERING	1.00	each	HC	104	104	2.800	6.470	0	9.270	969	10.238
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	25.747	25.747	0	25.747
Total for Activity 1B07700500:						715	20.495	65.279	25.747	111.521	7.091	118.612

Line Item 2CDPET2B0 - D&D TYPE 2 BLDGS SET 17 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750 STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried		Linear	34.14	Hours
Factors	1 Engineer		113.8 hours		0.3 adi. Factor				
	750 STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried		Linear	88.30	Hours
Factors	1 engineer		88.3 hours						
	750 STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried		Linear	86.50	Hours
Factors	1 engineer		173 hours		0.5 adi. Factor				
	750 STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition		Linear	242.40	Hours
Factors	4 Engineers		242.4 hours		0.25 adi. Factor				
	750 STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition		Linear	99.84	Hours
Factors	2 Admin Assist.		249.6 hours		0.2 adi. Factor				
	750 STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition		Linear	60.00	Hours
Factors	2 D&D Workers (walkdowns)		30 hours						
	A52 TENERA	E070	MECHANICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality		Linear	18.889.51	Dollars
Factors	259.4 hours		72.82 \$/hr						
	A57 LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition		Linear	22.045.29	Dollars
Factors	6 planners		207.4 hours		63.27 Dollars per hour	0.28 adi. Factor			
	A5C SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition		Linear	0.00	Dollars
Factors	11019 dollars		0 adi. Factor						
	A5H SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality		Linear	2.721.36	Dollars
Factors	170.8 hours		53.11 \$/hr		0.3 adi. Factor				
	A5H SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality		Linear	9.445.92	Dollars
Factors	132.5 hours		71.29 \$/hr						
	A5H SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Ena Envir. Sftv & Quality		Linear	2.559.54	Dollars
Factors	81.9 hours		96.16 \$/hr		0.5 adi. Factor	0.65 nuclear safety eng.			
	A5H SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality		Linear	3.147.46	Dollars
Factors	101.4 hours		77.6 \$/hr		0.4 adi. Factor				
	A5H SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition		Linear	0.00	Dollars
Factors	620842 Powertool balance adi.		0 adi factor for 11.9 % reduction						

Line Item 2CDPET2B9 - D&D BLDG 709 PLANNING & ENGINEERING

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost -
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WBS No: 1BAD17
Activity ID: 1B07700500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Basis for adjustment -

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	S100S	SSOC Salaried	Linear	5.20	Hours
Factors	1	Engineer	5.2	hours				
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	S100S	SSOC Salaried	Linear	4.00	Hours
Factors	1	engineer	4	hours				
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	S100S	SSOC Salaried	Linear	7.80	Hours
Factors	1	engineer	7.8	hours				
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	43.90	Hours
Factors	1	Engineers	43.9	hours				
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	KB30S	B707 Facility Disposition	Linear	22.60	Hours
Factors	1	Admin Assist.	22.6	hours				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	20.00	Hours
Factors	2	D&D Workers (walkdowns)	10	hours				
A52	TENERA	E070	MECHANICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	859.28	Dollars
Factors	11.8	hours	72.82	\$/hr				
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	KB30S	B707 Facility Disposition	Linear	3,562.10	Dollars
Factors	1	planners	56.3	hours	63.27	Dollars per hour		
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	499.00	Dollars
Factors	499	dollars						
A5H	SUBCONTRACTED SRVS	E020	CIVIL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	408.95	Dollars
Factors	7.7	hours	53.11	\$/hr				
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	427.74	Dollars
Factors	6	hours	71.29	\$/hr				
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	KB50S	B707 Ena Envir. Sftv & Quality	Linear	355.79	Dollars
Factors	3.7	hours	96.16	\$/hr				
A5H	SUBCONTRACTED SRVS	E120	SAFETY ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	356.96	Dollars
Factors	4.6	hours	77.6	\$/hr				

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	18,625.23	Dollars
Factors	18625.2	Dollars						
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	7,121.41	Dollars
Factors	7121.41	Dollars						

Activity ID: 1B07702500

Description: Equipment Stripout -Set 17-Type 2 Bldg

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDED8BD0	Type 2 Buildings	1.00	each	HC	13.091	13.091	335,986	171,774	0	507,760	116,251	624,011
2CDED8BD9	D&D Bldg 709 IWCP EXECUTION	1.00	each	HC	350	350	8,841	2,700	0	11,542	3,059	14,601
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	177,053	177,053	0	177,053
Total for Activity 1B07702500:						13.441	344,827	174,474	177,053	696,354	119,310	815,664

Line Item 2CDED8BD0 - Type 2 Buildings

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

WBS No: 1BAD17
Activity ID: 1B07702500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1BAD
*

Starts In FY *

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
	750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	6,268.00	Hours
Factors	6268 Hours					
	750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	1,945.00	Hours
Factors	1945 Hours					
	750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	520.00	Hours
Factors	520 Hours					
	750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	1,567.00	Hours
Factors	7683 Hours	0.20396 4 to 1 adi. Factor				
	751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	1,254.00	Hours
Factors	1254 Hours					
	751 OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	1,537.00	Hours
Factors	1537 Hours					
	A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	104,352.00	Dollars
Factors	104352 Dollars					
	A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	67,422.00	Dollars
Factors	67422 Dollars					

Line Item 2CDEd8BD9 - D&D Bldg 709 IWCP EXECUTION

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
	750 STRAIGHT TIME BASE	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	160.00	Hours
Factors	160 Hours					
	750 STRAIGHT TIME BASE	E130 OTHER ENGINEERS	KB50S B707 Ena Envir. Sftv & Quality	Linear	50.00	Hours
Factors	50 Hours					
	750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	60.00	Hours
Factors	60 Hours					
	750 STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	40.00	Hours
Factors	160 Hours	0.25 4 to 1 adi. Factor				
	751 OVERTIME BASE & PRE.	C120 D&D SKILLED TRADES	KB30H B707 Facility Disposition	Linear	20.00	Hours
Factors	20 Hours					
	751 OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KB50H B707 Ena Envir. Sftv & Quality	Linear	20.00	Hours
Factors	20 Hours					
	A5C SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	2,000.00	Dollars
Factors	2000 Dollars					
	A5H SUBCONTRACTED SRVS	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	700.00	Dollars
Factors	700 Dollars					

Line Item SYS - Contingency And Escalation

BOE						
Resources	Cost Element	Skill	Department	Curve	Quantity	Units
	CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	128,080.80	Dollars
Factors	128081 Dollars					
	ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	48,972.07	Dollars
Factors	48972.1 Dollars					

Activity ID: 1B07703500 Description: IWCP Execution Trades - Type 2 Bldg. (731/778)

Cost Risk 1 Schedule Risk 1

WBS No: 1BAD17
Activity ID: 1B07703500

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDET8BD0	Type 2 Buildings	1.00	each	HC	0	0	0	2,465.726	0	2,465.726	0	2,465.726
2CDET8BD9	D&D Bldg 709 IWCP EXECUTION TRADES	1.00	each	HC	0	0	0	38.106	0	38.106	0	38.106
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	711.288	711.288	0	711.288
Total for Activity 1B07703500:						0	0	2,503.832	711.288	3,215.120	0	3,215.120

Line Item 2CDET8BD0 - Type 2 Buildings

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	2,465.726.00
Factors	4483137	Dollars	0.55	adi Factor			

Line Item 2CDET8BD9 - D&D Bldg 709 IWCP EXECUTION TRADES

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -											
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5B	CONSTRUCTION	C120	D&D SKILLED TRADES	KB20C	Building Trades Proj B Estimating Only	Linear	38.106.00
Factors	38106	Dollars					

Line Item SYS - Contingency And Escalation

BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	430.847.90	Dollars
	Factors 430848 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	280.440.30	Dollars
	Factors 280440 Dollars									

WBS No: 1BADBA Title: Decommissioning Project Management
Activity ID: 1B07DDOP01 Description: D&D DOP

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDOPXDP0	B707 D&D DOP	1.00	each	HC	0	0	0	53.136	0	53.136	0	53.136
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	1.027	1.027	0	1.027
Total for Activity 1B07DDOP01:						0	0	53.136	1.027	54.163	0	54.163

Line Item 2CDOPXDP0 - B707 D&D DOP

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity											
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WBS No: 1BADBA
Activity ID: 1B07DDOP01

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * *Starts In FY* *

Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A52	TENERA	P160	TECHNICAL WRITERS AND EDITOR	KB30S	B707 Facilityv Disposition	Linear	53.136.00Dollars
Factors	1	Writer	9	Hours per day	82	Days (4 months)	72 Dollars per hour

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	598.37Dollars
Factors	598.369	Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	428.45Dollars
Factors	428.450	Dollars					

Activity ID: 1B07DDRA01 Description: D&D Readiness Assessment

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDRAXRA3	D&D Readiness Assessment - Closeout/Corrective Act	1.00	each	HC	80	80	2.098	11.520	0	13.618	1.011	14.630
2CDRAXRA4	Plan of Action Development	1.00	each	HC	0	0	0	204.000	0	204.000	0	204.000
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	6.053	6.053	0	6.053
Total for Activity 1B07DDRA01:						80	2.098	215.520	6.053	223.672	1.011	224.683

Line Item 2CDRAXRA3 - D&D Readiness Assessment - Closeout/Corrective Act

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	KB30S	B707 Facilityv Disposition	Linear	80.00Hours
Factors	2	Fac Disp Staff	40	Hours			
A52	TENERA	P170	OTHER ADMINISTRATIVE & PROFE	KB30S	B707 Facilityv Disposition	Linear	5.760.00Dollars
Factors	2	Fac Disp Subs	40	Hours	72	Dollars per hour	
A57	LATA	P170	OTHER ADMINISTRATIVE & PROFE	KB30S	B707 Facilityv Disposition	Linear	5.760.00Dollars
Factors	2	Fac Disp Subs	40	Hours	72	Dollars per hour	

Line Item 2CDRAXRA4 - Plan of Action Development

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

WBS No: 1BADBA
Activity ID: 1B07DDRA01

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A52	TENERA	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	102,000.00 Dollars
Factors	1	Subcontractor	40	Hours per week	30	weeks	85 Dollars per hour
A57	LATA	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	102,000.00 Dollars
Factors	1	Subcontractor	40	Hours per week	30	weeks	85 Dollars per hour

Line Item SYS - Contingency And Escalation

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3,527.60 Dollars
Factors	3527.6	Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	2,525.87 Dollars
Factors	2525.87	Dollars					

Activity ID: 1B07DDTNG1 Description: D&D RA/Core Training

Cost Risk 1 Schedule Risk 1

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CRATXRA1	D&D Readiness Assessment - Preparatory Training	1.00	each	HC	7.470	7.470	161,654	46,000	0	207,654	77,109	284,763
2CRATXRA3	D&D Training	1.00	each	HC	17.850	17.850	382,228	0	0	382,228	182,323	564,551
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	45,027	45,027	0	45,027
Total for Activity 1B07DDTNG1:						25.320	543,882	46,000	45,027	634,909	259,432	894,340

Line Item 2CRATXRA1 - D&D Readiness Assessment - Preparatory Training

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost - Unit Cost Adjustment factor - Revised Unit Cost - Basis for adjustment -
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	90.00 Hours
Factors	2	SMEs	5	Hours per week	9	weeks	
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	800.00 Hours
Factors	2	Foreman	40	Hours per week	5	weeks	2 Crews
750	STRAIGHT TIME BASE	M040	MANAGERS (GRADE 64 - 68)	KB30S	B707 Facility Disposition	Linear	90.00 Hours
Factors	2	CCAs	5	hours per week	9	weeks	
750	STRAIGHT TIME BASE	R070	WASTE TREATMENT OPERATOR A	KB20H	B707 Facilities Management	Linear	90.00 Hours
Factors	2	SOEs	5	Hours per week	9	weeks	
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	1,200.00 Hours
Factors	3	RCTs	40	Hours per week	5	weeks	2 Crews
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	5,200.00 Hours
Factors	13	D&D Workers	40	hours per week	5	weeks	2 Crews
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	46,000.00 Dollars
Factors	46000	Dollars					

Line Item 2CRATXRA3 - D&D Training

BOE	Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications. Item Desc - Similar B771 and B779 Activity Breakdown of Historical Data: Item - See Line Item Title Units - 1 lot Unit Cost -
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WBS No: 1BADBA
Activity ID: 1B07DDTNG1

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter * Starts In FY *

Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750		STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	KB30S B707 Facility Disposition	Linear	2.380.00	Hours
Factors	2	Foreman	40 Hours per week	4.25 weeks	7 Crews		
750		STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KB30H B707 Facility Disposition	Linear	15.470.00	Hours
Factors	13	D&D Workers	40 hours per week	4.25 weeks	7 Crews		

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON		CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	27.167.77	Dollars
Factors	27167.8	Dollars					
ESC		ESCALATION	0000 NONE	ZDEPT No Department	Linear	17.859.16	Dollars
Factors	17859.2	Dollars					

Activity ID: 1B1B0707PM Description: PROJECT MANAGEMENT

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDPM0000	D&D 707 CLUSTER PROJECT MGMT	1.00	each	HC	50.779	50.779	1,715.924	11,043.520	0	12,759.444	623.785	13,383.229
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	3,116.120	3,116.120	0	3,116.120
Total for Activity 1B1B0707PM:						50.779	1,715.924	11,043.520	3,116.120	15,875.564	623.785	16,499.349

Line Item 2CDPM0000 - D&D 707 CLUSTER PROJECT MGMT

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750		STRAIGHT TIME BASE	E130 OTHER ENGINEERS	S100S SSOC Salaried	Linear	9.448.20	Hours
Factors	2	Engineers/SMEs	8145 hours	0.58 adi. Factor			
750		STRAIGHT TIME BASE	G010 ADMINISTRATIVE ASSISTANTS	KB30S B707 Facility Disposition	Back Loaded	8.145.00	Hours
Factors	1	Admin Assistants	8145 hours				
750		STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	KB30S B707 Facility Disposition	Back Loaded	10.040.00	Hours
Factors	2	Managers	5020 hours				
750		STRAIGHT TIME BASE	M040 MANAGERS (GRADE 64 - 68)	KB30S B707 Facility Disposition	Linear	7.246.00	Hours
Factors	1	Managers	7246 hours				
750		STRAIGHT TIME BASE	P070 COST ESTIMATORS PLANNERS AN	S100S SSOC Salaried	Linear	15.900.00	Hours
Factors	2	Planners/Planner Support	7950 hours				
A52		TENERA	M040 MANAGERS (GRADE 64 - 68)	KB30S B707 Facility Disposition	Back Loaded	456.820.00	Dollars
Factors	1	Manager	5020 hours	91 \$/hour			
A53		E-2	P170 OTHER ADMINISTRATIVE & PROFE	KB30S B707 Facility Disposition	Linear	867.938.10	Dollars
Factors	2	Other Admin & Professionals	7445 hours	58.29 \$/hour			
A57		LATA	E130 OTHER ENGINEERS	KB30S B707 Facility Disposition	Linear	1,131.938.00	Dollars
Factors	2	Engineers/Tech Support Personnel	7445 hours	76.02 \$/hour			
A57		LATA	P070 COST ESTIMATORS PLANNERS AN	KB30S B707 Facility Disposition	Linear	1,508.990.00	Dollars
Factors	3	Cost Analvsts/Planners/Schedulers	7950 hours	63.27 \$/hour			
A5C		SUPPLIES	0000 NONE	KB30S B707 Facility Disposition	Linear	4.619.972.00	Dollars
Factors	9525715	dollars	0.485 adi. Factor				

WBS No: 1BADBA
Activity ID: 1B1B0707PM

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	KB30S	B707 Facility Disposition	Linear	1,208,718.00	Dollars
Factors	2	Engineers/Tech Support Personnel	7950	hours	76.02	\$/hour		
A5H	SUBCONTRACTED SRVS	P170	OTHER ADMINISTRATIVE & PROFE	KB30S	B707 Facility Disposition	Linear	949,544.10	Dollars
Factors	2	Other Admin & Professionals	8145	hours	58.29	\$/hour		
A5L	RENTALS	0000	NONE	KB30S	B707 Facility Disposition	Linear	162,000.00	Dollars
Factors	10	rentals	450	\$/month	36	months		
A5L	RENTALS	0000	NONE	KB30S	B707 Facility Disposition	Max Backload	48,000.00	Dollars
Factors	4	temp. trailers	1000	\$/month	12	months		
A5M	TRAVEL/TRAIN/RELOCAT	0000	NONE	KB30S	B707 Facility Disposition	Linear	89,600.00	Dollars
Factors	4	travels/year	4	people	4	years	1400	dollars/travel

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	2,044,487.00	Dollars
Factors	2044487 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1,071,633.00	Dollars
Factors	1071633 Dollars							

WBS No: 1BADBB Title: Decommissioning Support Services

Activity ID: 1B1B0707SS Description: SITE SUPPORT

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CDSS0ALL	D&D B707 CLUSTER SITE SUPPORT	1.00	each	HC	51.199	51.199	1,477.743	12,176.133	0	13,653.876	532.824	14,186.699
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	3,617.117	3,617.117	0	3,617.117
Total for Activity 1B1B0707SS:						51.199	1,477.743	12,176.133	3,617.117	17,270.993	532.824	17,803.817

Line Item 2CDSS0ALL - D&D B707 CLUSTER SITE SUPPORT

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C100	AUTO MECHANIC	KT10H	Non Project Steelworkers	Linear	3,020.00	Hours
Factors	2	Equipment Mechanics		5000 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		E120	SAFETY ENGINEERS	KB50S	B707 Ena Envir. Sftv & Quality	Linear	4,070.36	Hours
Factors	2	Safety engineers		6739 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	K107S	Ena. Envir. Safety & Quality Programs	Linear	2,174.40	Hours
Factors	1	Other engineers/tech support		7200 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	K266S	Envir. Safety, Health & Quality	Linear	1,661.00	Hours
Factors	1	Other engineers/tech support		5500 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	KB20S	B707 Facilities Management	Linear	4,348.80	Hours
Factors	2	Other engineers/tech support		7200 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	KB20S	B707 Facilities Management	Linear	1,963.00	Hours
Factors	1	Admin Assistants		6500 hours		0.302 adi. Factor			
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB50S	B707 Ena Envir. Sftv & Quality	Linear	23,340.00	Hours
Factors	3	RCT Foremen		7780 hours					
750	STRAIGHT TIME BASE		P150	TRAINERS	K288S	Training Integration	Linear	1,894.45	Hours
Factors	1	Trainers & Admin		6273 hours		0.302 adi. Factor			

WBS No: 1BADBB
Activity ID: 1B1B0707SS

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1BAD
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	L080	SECURITY GUARDS	W207H	Protective Force 5-Days	Linear	5,226.00	Hours
Factors	2	Guards	2613	hours				
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB50S	B707 Eng Envir. Sftv & Quality	Linear	3,501.00	Hours
Factors	3	RCT Foremen	1167	hours (15% OT)				
A57	LATA	P160	TECHNICAL WRITERS AND EDITOR	KB10S	B707 Program Management	Linear	356,559.50	Dollars
Factors	2	Technical Writers	4500	hours	58.78	\$/hour	0.674	adi. Factor
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	3,974,303.00	Dollars
Factors	1.4E+07	Dollars	0.28145	adi. Factor				
A5F	CSS FIXED PRICE	0000	NONE	KB30S	B707 Facility Disposition	Back Loaded	4,487,484.00	Dollars
Factors	4487484	Dollars		laundry for FY03-05				
A5H	SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	K266S	Envir. Safetv. Health & Quality	Linear	115,872.80	Dollars
Factors	1	Criticality Safetv Eng	1205	hours	96.16	\$/hour		
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	1,088,152.00	Dollars
Factors	3	Qualitv Control Engineers	7300	hours	73.72	\$/hour	0.674	adi. Factor
A5H	SUBCONTRACTED SRVS	P090	INDUSTRIAL HYGIENISTS	KB50S	B707 Eng Envir. Sftv & Quality	Linear	1,087,265.00	Dollars
Factors	3	Industrial Hygenists	7945	hours	67.68	\$/hour	0.674	adi. Factor
A5H	SUBCONTRACTED SRVS	P150	TRAINERS	KB10S	B707 Program Management	Linear	606,842.70	Dollars
Factors	3	Trainers	6000	hours	50.02	\$/hour	0.674	adi. Factor
A5H	SUBCONTRACTED SRVS	P170	OTHER ADMINISTRATIVE & PROFE	KB50S	B707 Eng Envir. Sftv & Quality	Linear	459,654.50	Dollars
Factors	2	Other Admin & Professionals	6500	hours	52.46	\$/hour	0.674	adi. Factor

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	2,369,883.00	Dollars
Factors	2369883 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1,247,235.00	Dollars
Factors	1247235 Dollars							

WBS No: 1BADBB01 Title: Decommissioning Support Services Labor

Activity ID: 1B07WOPS01 Description: 707 D&D - Waste OPS

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
2CWOPXWH0	D&D Waste Handling Support	1.00	each	HC	150.587	150.587	3,474.150	7,003.751	0	10,477.900	1,216.462	11,694.363
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	3,089.325	3,089.325	0	3,089.325
Total for Activity 1B07WOPS01:						150.587	3,474.150	7,003.751	3,089.325	13,567.225	1,216.462	14,783.687

Line Item 2CWOPXWH0 - D&D Waste Handling Support

BOE

Historical Data Source - BOE was developed utilizing both historical costs and estimator experience from previously preformed similar activities from B779 and B771. BOE elements accumulated from B779 and B771 were entered into estimating software (Powertool), and these elements were reviewed, validated, modified, and then applied towards B707 specifications.
Item Desc - Similar B771 and B779 Activity
Breakdown of Historical Data:
Item - See Line Item Title
Units - 1 lot
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	8,250.00	Hours
Factors	8250	Hours							
750	STRAIGHT TIME BASE		T050	RADIATION CONTROL TECHNOLOGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	21,789.00	Hours
Factors	3	RCTs		9 hrs/day		807 days			
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	94,419.00	Hours
Factors	13	D&D Workers		9 hrs/day		807 days			

WBS No: 1BADBB01
Activity ID: 1B07WOPS01

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
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Baseline Devl
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751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1.650.00	Hours
Factors	1650	Hours (20% OT)						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	KB30S	B707 Facility Disposition	Linear	1.237.00	Hours
Factors	1237	Hours (15% OT)						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KB50H	B707 Eng Envir. Sftv & Quality	Linear	4.358.00	Hours
Factors	4358	Hours (20% OT)						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KB30H	B707 Facility Disposition	Linear	18.884.00	Hours
Factors	18884	Hours (20% OT)						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	6.670.000.00	Dollars
Factors	6670000	Dollars for waste supplies						
A5C	SUPPLIES	0000	NONE	KB30S	B707 Facility Disposition	Linear	333.750.50	Dollars
Factors	1335002	Powertool balance adi.	0.25	remv part of adimnt to support 776				

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	2.034.894.00	Dollars
Factors	2034894	Dollars						
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	1.054.430.00	Dollars
Factors	1054430	Dollars						

Report Totals:

Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
1.392.402	34.065.545	75.486.173	35.181.019	144.732.737	12.135.501	156.868.238